

EMMXX Register table

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| START ADDRESS | FINISH ADDRESS | REGISTER COUNTS |
|---------------|----------------|-----------------|
| 0 | 0149 | 150 |
| 800 | 1335 | 536 |
| 20000 | 20025 | 26 |
| 20500 | 20531 | 32 |
| 16384 | 16415 | 32 |
| 17000 | 17373 | 374 |
| 17966 | 17973 | 8 |
| 60416 | 60455 | 40 |
| 19968 | 19968 | 1 |

| | |
|---|--|
| ✓ | is used for available for this version |
| 0 | is used for not available for this version is used for optional with I/O module |

Measurements

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Read holding registers | 0 | 150 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|--------|--|------------|-----|-------|---------|----------|
| 0000 | 0000 | float | 2 | V | Voltage L1-N | 1 | R | | ✓ | ✓ |
| 0002 | 0002 | float | 2 | V | Voltage L2-N | 1 | R | | ✓ | ✓ |
| 0004 | 0004 | float | 2 | V | Voltage L3-N | 1 | R | | ✓ | ✓ |
| 0006 | 0006 | float | 2 | - | N / A | 1 | R | | | |
| 0008 | 0008 | float | 2 | V | Voltage L1-L2 | 1 | R | | ✓ | ✓ |
| 0010 | 000A | float | 2 | V | Voltage L2-L3 | 1 | R | | ✓ | ✓ |
| 0012 | 000C | float | 2 | V | Voltage L3-L1 | 1 | R | | ✓ | ✓ |
| 0014 | 000E | float | 2 | mA | Current L1 | 1 | R | | ✓ | ✓ |
| 0016 | 0010 | float | 2 | mA | Current L2 | 1 | R | | ✓ | ✓ |
| 0018 | 0012 | float | 2 | mA | Current L3 | 1 | R | | ✓ | ✓ |
| 0020 | 0014 | float | 2 | - | N / A | 1 | R | | | |
| 0022 | 0016 | float | 2 | mA | Neutral Current = I(L1+I(L2+I(L3 | 1 | R | | ✓ | ✓ |
| 0024 | 0018 | float | 2 | Hz | Measured frequency | 1 | R | | ✓ | ✓ |
| 0026 | 001A | float | 2 | W | Active power L1-N | 1 | R | | | |
| 0028 | 001C | float | 2 | W | Active power L2-N | 1 | R | | | |
| 0030 | 001E | float | 2 | W | Active power L3-N | 1 | R | | | |
| 0032 | 0020 | float | 2 | - | N / A | 1 | R | | | |
| 0034 | 0022 | float | 2 | W | Total import active power | 1 | R | | | |
| 0036 | 0024 | float | 2 | W | Total export active power | 1 | R | | | |
| 0038 | 0026 | float | 2 | W | Total Active power | 1 | R | | | |
| 0040 | 0028 | float | 2 | VAR | Reactive power L1 | 1 | R | | | |
| 0042 | 002A | float | 2 | VAR | Reactive power L2 | 1 | R | | | |
| 0044 | 002C | float | 2 | VAR | Reactive power L3 | 1 | R | | | |
| 0046 | 002E | float | 2 | - | N / A | 1 | R | | | |
| 0048 | 0030 | float | 2 | VAR | Quadrant 1 total reactive power | 1 | R | | | |
| 0050 | 0032 | float | 2 | VAR | Quadrant 2 total reactive power | 1 | R | | | |
| 0052 | 0034 | float | 2 | VAR | Quadrant 3 total reactive power | 1 | R | | | |
| 0054 | 0036 | float | 2 | VAR | Quadrant 4 total reactive power | 1 | R | | | |
| 0056 | 0038 | float | 2 | VAR | Total reactive power | 1 | R | | | |
| 0058 | 003A | float | 2 | VAR | Apperant power L1-N | 1 | R | | | |
| 0060 | 003C | float | 2 | VAR | Apperant power L2-N | 1 | R | | | |
| 0062 | 003E | float | 2 | VAR | Apperant power L3-N | 1 | R | | | |
| 0064 | 0040 | float | 2 | - | N / A | 1 | R | | | |
| 0066 | 0042 | float | 2 | VA | Total import apperant power | 1 | R | | | |
| 0068 | 0044 | float | 2 | VA | Total export apperant power | 1 | R | | | |
| 0070 | 0046 | float | 2 | VA | Total Apperant Power | 1 | R | | | |
| 0072 | 0048 | float | 2 | - | Power Factor L1 | 1 | R | | | |
| 0074 | 004A | float | 2 | - | Power Factor L2 | 1 | R | | | |
| 0076 | 004C | float | 2 | - | Power Factor L3 | 1 | R | | | |
| 0078 | 004E | uint | 2 | - | N / A | 1 | R | | | |
| 0080 | 0050 | float | 2 | - | Power Factor Total Import | 1 | R | | | |
| 0082 | 0052 | float | 2 | - | Power Factor Total Export | 1 | R | | | |
| 0084 | 0054 | float | 2 | - | Power Factor Total | 1 | R | | | |
| 0086 | 0056 | float | 2 | - | CosPhi L1 | 1 | R | | ✓ | ✓ |
| 0088 | 0058 | float | 2 | - | CosPhi L2 | 1 | R | | ✓ | ✓ |
| 0090 | 005A | float | 2 | - | CosPhi L3 | 1 | R | | ✓ | ✓ |
| 0092 | 005C | uint | 2 | - | N / A | 1 | R | | | |
| 0094 | 005E | uint | 2 | - | N / A | 1 | R | | | |
| 0096 | 0060 | uint | 2 | - | N / A | 1 | R | | | |
| 0098 | 0062 | float | 2 | - | 2Cos Phi = COS_L1 + COS_L2 + COS_L3 | 1 | R | | ✓ | ✓ |
| 0100 | 0064 | float | 2 | - | Rotation field; 1=right, 0=none, -1=left | 1 | R | | ✓ | ✓ |
| 0102 | 0066 | float | 2 | % | Voltage Unbalance | 1 | R | | | |
| 0104 | 0068 | uint | 2 | - | N / A | 1 | R | | | |
| 0106 | 006A | float | 2 | Angle | L1 Phase Voltage Angle | 1 | R | | ✓ | ✓ |
| 0108 | 006C | float | 2 | Angle | L2 Phase Voltage Angle | 1 | R | | ✓ | ✓ |
| 0110 | 006E | float | 2 | Angle | L3 Phase Voltage Angle | 1 | R | | ✓ | ✓ |
| 0112 | 0070 | uint | 2 | - | N / A | 1 | R | | | |
| 0114 | 0072 | float | 2 | Angle | L1 Phase Current Angle | 1 | R | | ✓ | ✓ |
| 0116 | 0074 | float | 2 | Angle | L2 Phase Current Angle | 1 | R | | ✓ | ✓ |
| 0118 | 0076 | float | 2 | Angle | L3 Phase Current Angle | 1 | R | | ✓ | ✓ |
| 0120 | 0078 | uint | 2 | - | N / A | 1 | R | | | |
| 0122 | 007A | uint | 2 | - | N / A | 1 | R | | | |
| 0124 | 007C | uint | 2 | - | N / A | 1 | R | | | |
| 0126 | 007E | uint | 2 | - | N / A | 1 | R | | | |
| 0128 | 0080 | float | 2 | °C | Internal Temp | 1 | R | | | |
| 0130 | 0082 | uint | 2 | h/1000 | Hour Meter (Non Resetable) | 1 | R | | ✓ | ✓ |
| 0132 | 0084 | uint | 2 | h/1000 | Working Hour Counter | 1 | R | | ✓ | ✓ |
| 0134 | 0086 | uint | 2 | - | Pulse Counter 1 | 1 | R | | | |
| 0136 | 0088 | uint | 2 | - | Pulse Counter 2 | 1 | R | | | |
| 0138 | 008A | uint | 2 | - | Pulse Counter 3 | 1 | R | | | |
| 0140 | 008C | uint | 2 | - | Pulse Counter 4 | 1 | R | | | |
| 0142 | 008E | uint | 2 | - | Pulse Counter 5 | 1 | R | | | |
| 0144 | 0090 | uint | 2 | - | Pulse Counter 6 | 1 | R | | | |
| 0146 | 0092 | uint | 2 | - | Pulse Counter 7 | 1 | R | | | |
| 0148 | 0094 | uint | 2 | - | Pulse Counter 8 | 1 | R | | | |

Min-Max, Max Demand, Demand Measurement

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Read holding registers | 800 | 536 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|-------|---------------------------|-----------------|-----|-------|---------|----------|
| 0800 | 0320 | float | 2 | V | L1 Phase Max Voltage | 1 | R | | ✓ | ✓ |
| 0802 | 0322 | uint | 2 | Time | L1 Phase Max Voltage Time | Unix Time Stamp | R | | | |
| 0804 | 0324 | float | 2 | V | L2 Phase Max Voltage | 1 | R | | ✓ | ✓ |
| 0806 | 0326 | uint | 2 | Time | L2 Phase Max Voltage Time | Unix Time Stamp | R | | | |
| 0808 | 0328 | float | 2 | V | L3 Phase Max Voltage | 1 | R | | ✓ | ✓ |
| 0810 | 032A | uint | 2 | Time | L3 Phase Max Voltage Time | Unix Time Stamp | R | | | |
| 0812 | 032C | uint | 2 | - | N / A | 1 | R | | | |
| 0814 | 032E | uint | 2 | - | N / A | Unix Time Stamp | R | | | |
| 0816 | 0330 | float | 2 | V | L1-L2 Max Voltage | 1 | R | | ✓ | ✓ |
| 0818 | 0332 | uint | 2 | Time | L1-L2 Max Voltage Time | Unix Time Stamp | R | | | |
| 0820 | 0334 | float | 2 | V | L2-L3 Max Voltage | 1 | R | | ✓ | ✓ |
| 0822 | 0336 | uint | 2 | Time | L2-L3 Max Voltage Time | Unix Time Stamp | R | | | |
| 0824 | 0338 | float | 2 | V | L3-L1 Max Voltage | 1 | R | | ✓ | ✓ |
| 0826 | 033A | uint | 2 | Time | L3-L1 Max Voltage Time | Unix Time Stamp | R | | | |

| | | | | | | | | | | | |
|------|------|-------|---|------|--|-----------------|---|--|--|---|---|
| 0828 | 033C | float | 2 | A | L1 Phase Max Current | 1 | R | | | ✓ | ✓ |
| 0830 | 033E | uint | 2 | Time | L1 Phase Max Current Time | Unix Time Stamp | R | | | | |
| 0832 | 0340 | float | 2 | A | L2 Phase Max Current | 1 | R | | | ✓ | ✓ |
| 0834 | 0342 | uint | 2 | Time | L2 Phase Max Current Time | Unix Time Stamp | R | | | | |
| 0836 | 0344 | float | 2 | A | L3 Phase Max Current | 1 | R | | | ✓ | ✓ |
| 0838 | 0346 | uint | 2 | Time | L3 Phase Max Current Time | Unix Time Stamp | R | | | | |
| 0840 | 0348 | uint | 2 | - | N / A | 1 | R | | | | |
| 0842 | 034A | uint | 2 | - | N / A | 1 | R | | | | |
| 0844 | 034C | float | 2 | A | L4 Phase Max Current | 1 | R | | | ✓ | ✓ |
| 0846 | 034E | uint | 2 | Time | L4 Phase Max Current Time | Unix Time Stamp | R | | | | |
| 0848 | 0350 | float | 2 | Hz | Max System Frequency | 1 | R | | | ✓ | ✓ |
| 0850 | 0352 | uint | 2 | Time | Max System Frequency Time | Unix Time Stamp | R | | | | |
| 0852 | 0354 | float | 2 | % | Max. Unbalance | 1 | R | | | | |
| 0854 | 0356 | uint | 2 | Time | Max. Unbalance Time | Unix Time Stamp | R | | | | |
| 0856 | 0358 | float | 2 | W | L1 Phase Max Active Power | 1 | R | | | | |
| 0858 | 035A | uint | 2 | Time | L1 Phase Max Active Power Time | Unix Time Stamp | R | | | | |
| 0860 | 035C | float | 2 | W | L2 Phase Max Active Power | 1 | R | | | | |
| 0862 | 035E | uint | 2 | Time | L2 Phase Max Active Power Time | Unix Time Stamp | R | | | | |
| 0864 | 0360 | float | 2 | W | L3 Phase Max Active Power | 1 | R | | | | |
| 0866 | 0362 | uint | 2 | Time | L3 Phase Max Active Power Time | Unix Time Stamp | R | | | | |
| 0868 | 0364 | uint | 2 | - | N / A | 1 | R | | | | |
| 0870 | 0366 | uint | 2 | - | N / A | 1 | R | | | | |
| 0872 | 0368 | float | 2 | W | Max Total Import Active Power | 1 | R | | | | |
| 0874 | 036A | uint | 2 | Time | Max Total Import Active Power Time | Unix Time Stamp | R | | | | |
| 0876 | 036C | float | 2 | W | Max Total Export Active Power | 1 | R | | | | |
| 0878 | 036E | uint | 2 | Time | Max Total Export Active Power Time | Unix Time Stamp | R | | | | |
| 0880 | 0370 | float | 2 | W | Max Total Active Power | 1 | R | | | | |
| 0882 | 0372 | uint | 2 | Time | Max Total Active Power Time | Unix Time Stamp | R | | | | |
| 0884 | 0374 | float | 2 | VAR | L1 Phase Max Reactive Power | 1 | R | | | | |
| 0886 | 0376 | uint | 2 | Time | L1 Phase Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0888 | 0378 | float | 2 | VAR | L2 Phase Max Reactive Power | 1 | R | | | | |
| 0890 | 037A | uint | 2 | Time | L2 Phase Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0892 | 037C | float | 2 | VAR | L3 Phase Max Reactive Power | 1 | R | | | | |
| 0894 | 037E | uint | 2 | Time | L3 Phase Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0896 | 0380 | uint | 2 | - | N / A | 1 | R | | | | |
| 0898 | 0382 | uint | 2 | - | N / A | 1 | R | | | | |
| 0900 | 0384 | float | 2 | VAR | Quadrant 1 Max Reactive Power | 1 | R | | | | |
| 0902 | 0386 | uint | 2 | Time | Quadrant 1 Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0904 | 0388 | float | 2 | VAR | Quadrant 2 Max Reactive Power | 1 | R | | | | |
| 0906 | 038A | uint | 2 | Time | Quadrant 2 Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0908 | 038C | float | 2 | VAR | Quadrant 3 Max Reactive Power | 1 | R | | | | |
| 0910 | 038E | uint | 2 | Time | Quadrant 3 Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0912 | 0390 | float | 2 | VAR | Quadrant 4 Max Reactive Power | 1 | R | | | | |
| 0914 | 0392 | uint | 2 | Time | Quadrant 4 Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0916 | 0394 | float | 2 | VAR | Quadrant Total Max Reactive Power | 1 | R | | | | |
| 0918 | 0396 | uint | 2 | Time | Quadrant Total Max Reactive Power Time | Unix Time Stamp | R | | | | |
| 0920 | 0398 | float | 2 | VA | L1 Phase Max Apperant Power | 1 | R | | | | |
| 0922 | 039A | uint | 2 | Time | L1 Phase Max Apperant Power Time | Unix Time Stamp | R | | | | |
| 0924 | 039C | float | 2 | VA | L2 Phase Max Apperant Power | 1 | R | | | | |
| 0926 | 039E | uint | 2 | Time | L2 Phase Max Apperant Power Time | Unix Time Stamp | R | | | | |
| 0928 | 03A0 | float | 2 | VA | L3 Phase Max Apperant Power | 1 | R | | | | |
| 0930 | 03A2 | uint | 2 | Time | L3 Phase Max Apperant Power Time | Unix Time Stamp | R | | | | |
| 0932 | 03A4 | uint | 2 | - | N / A | 1 | R | | | | |
| 0934 | 03A6 | uint | 2 | - | N / A | 1 | R | | | | |
| 0936 | 03A8 | float | 2 | VA | Max Total Import Apperant Power | 1 | R | | | | |
| 0938 | 03AA | uint | 2 | Time | Max Total Import Apperant Power Time | Unix Time Stamp | R | | | | |
| 0940 | 03AC | float | 2 | VA | Max Total Export Apperant Power | 1 | R | | | | |
| 0942 | 03AE | uint | 2 | Time | Max Total Export Apperant Power Time | Unix Time Stamp | R | | | | |
| 0944 | 03B0 | float | 2 | VA | Max Total Apperant Power | 1 | R | | | | |
| 0946 | 03B2 | uint | 2 | Time | Max Total Apperant Power Time | Unix Time Stamp | R | | | | |
| 0948 | 03B4 | uint | 2 | - | N / A | 1 | R | | | | |
| 0950 | 03B6 | uint | 2 | - | N / A | 1 | R | | | | |
| 0952 | 03B8 | uint | 2 | - | N / A | 1 | R | | | | |
| 0954 | 03BA | uint | 2 | - | N / A | 1 | R | | | | |
| 0956 | 03BC | uint | 2 | - | N / A | 1 | R | | | | |
| 0958 | 03BE | uint | 2 | - | N / A | 1 | R | | | | |
| 0960 | 03C0 | uint | 2 | - | N / A | 1 | R | | | | |
| 0962 | 03C2 | uint | 2 | - | N / A | 1 | R | | | | |
| 0964 | 03C4 | uint | 2 | - | N / A | 1 | R | | | | |
| 0966 | 03C6 | uint | 2 | - | N / A | 1 | R | | | | |
| 0968 | 03C8 | uint | 2 | - | N / A | 1 | R | | | | |
| 0970 | 03CA | uint | 2 | - | N / A | 1 | R | | | | |
| 0972 | 03CC | uint | 2 | - | N / A | 1 | R | | | | |
| 0974 | 03CE | uint | 2 | - | N / A | 1 | R | | | | |
| 0976 | 03D0 | uint | 2 | - | N / A | 1 | R | | | | |
| 0978 | 03D2 | uint | 2 | - | N / A | 1 | R | | | | |
| 0980 | 03D4 | uint | 2 | - | N / A | 1 | R | | | | |
| 0982 | 03D6 | uint | 2 | - | N / A | 1 | R | | | | |
| 0984 | 03D8 | uint | 2 | - | N / A | 1 | R | | | | |
| 0986 | 03DA | uint | 2 | - | N / A | 1 | R | | | | |
| 0988 | 03DC | uint | 2 | - | N / A | 1 | R | | | | |
| 0990 | 03DE | uint | 2 | - | N / A | 1 | R | | | | |
| 0992 | 03E0 | float | 2 | V | L1 Phase Min Voltage | 1 | R | | | ✓ | ✓ |
| 0994 | 03E2 | uint | 2 | Time | L1 Phase Min Voltage Time | Unix Time Stamp | R | | | | |
| 0996 | 03E4 | float | 2 | V | L2 Phase Min Voltage | 1 | R | | | ✓ | ✓ |
| 0998 | 03E6 | uint | 2 | Time | L2 Phase Min Voltage Time | Unix Time Stamp | R | | | | |
| 1000 | 03E8 | float | 2 | V | L3 Phase Min Voltage | 1 | R | | | ✓ | ✓ |
| 1002 | 03EA | uint | 2 | Time | L3 Phase Min Voltage Time | Unix Time Stamp | R | | | | |
| 1004 | 03EC | uint | 2 | - | N / A | 1 | R | | | | |
| 1006 | 03EE | uint | 2 | - | N / A | 1 | R | | | | |
| 1008 | 03F0 | float | 2 | V | L1-L2 Min Voltage | 1 | R | | | ✓ | ✓ |
| 1010 | 03F2 | uint | 2 | Time | L1-L2 Min Voltage Time | Unix Time Stamp | R | | | | |
| 1012 | 03F4 | float | 2 | V | L2-L3 Min Voltage | 1 | R | | | ✓ | ✓ |
| 1014 | 03F6 | uint | 2 | Time | L2-L3 Min Voltage Time | Unix Time Stamp | R | | | | |
| 1016 | 03F8 | float | 2 | V | L3-L1 Min Voltage | 1 | R | | | ✓ | ✓ |
| 1018 | 03FA | uint | 2 | Time | L3-L1 Min Voltage Time | Unix Time Stamp | R | | | | |
| 1020 | 03FC | float | 2 | A | L1 Phase Min Current | 1 | R | | | ✓ | ✓ |
| 1022 | 03FE | uint | 2 | Time | L1 Phase Min Current Time | Unix Time Stamp | R | | | | |
| 1024 | 0400 | float | 2 | A | L2 Phase Min Current | 1 | R | | | ✓ | ✓ |
| 1026 | 0402 | uint | 2 | Time | L2 Phase Min Current Time | Unix Time Stamp | R | | | | |
| 1028 | 0404 | float | 2 | A | L3 Phase Min Current | 1 | R | | | ✓ | ✓ |
| 1030 | 0406 | uint | 2 | Time | L3 Phase Min Current Time | Unix Time Stamp | R | | | | |
| 1032 | 0408 | uint | 2 | - | N / A | 1 | R | | | | |
| 1034 | 040A | uint | 2 | - | N / A | 1 | R | | | | |
| 1036 | 040C | float | 2 | A | L4 Phase Min Current | 1 | R | | | ✓ | ✓ |
| 1038 | 040E | uint | 2 | Time | L4 Phase Min Current Time | Unix Time Stamp | R | | | | |
| 1040 | 0410 | float | 2 | W | L1 Phase Min Active Power | 1 | R | | | | |
| 1042 | 0412 | uint | 2 | Time | L1 Phase Min Active Power Time | Unix Time Stamp | R | | | | |
| 1044 | 0414 | float | 2 | W | L2 Phase Min Active Power | 1 | R | | | | |
| 1046 | 0416 | uint | 2 | Time | L2 Phase Min Active Power Time | Unix Time Stamp | R | | | | |
| 1048 | 0418 | float | 2 | W | L3 Phase Min Active Power | 1 | R | | | | |
| 1050 | 041A | uint | 2 | Time | L3 Phase Min Active Power Time | Unix Time Stamp | R | | | | |
| 1052 | 041C | uint | 2 | - | N / A | 1 | R | | | | |
| 1054 | 041E | uint | 2 | - | N / A | 1 | R | | | | |
| 1056 | 0420 | float | 2 | W | Min Total Import Active Power | 1 | R | | | | |
| 1058 | 0422 | uint | 2 | Time | Min Total Import Active Power Time | Unix Time Stamp | R | | | | |
| 1060 | 0424 | float | 2 | W | Min Total Export Active Power | 1 | R | | | | |
| 1062 | 0426 | uint | 2 | Time | Min Total Export Active Power Time | Unix Time Stamp | R | | | | |
| 1064 | 0428 | float | 2 | W | Min Total Active Power | 1 | R | | | | |
| 1066 | 042A | uint | 2 | Time | Min Total Active Power Time | Unix Time Stamp | R | | | | |
| 1068 | 042C | float | 2 | VAR | L1 Phase Min Reactive Power | 1 | R | | | | |
| 1070 | 042E | uint | 2 | Time | L1 Phase Min Reactive Power Time | Unix Time Stamp | R | | | | |
| 1072 | 0430 | float | 2 | VAR | L2 Phase Min Reactive Power | 1 | R | | | | |
| 1074 | 0432 | uint | 2 | Time | L2 Phase Min Reactive Power Time | Unix Time Stamp | R | | | | |
| 1076 | 0434 | float | 2 | VAR | L3 Phase Min Reactive Power | 1 | R | | | | |
| 1078 | 0436 | uint | 2 | Time | L3 Phase Min Reactive Power Time | Unix Time Stamp | R | | | | |
| 1080 | 0438 | uint | 2 | - | N / A | 1 | R | | | | |
| 1082 | 043A | uint | 2 | - | N / A | 1 | R | | | | |
| 1084 | 043C | float | 2 | VAR | Quadrant 1 Min Reactive Power | 1 | R | | | | |
| 1086 | 043E | uint | 2 | Time | Quadrant 1 Min Reactive Power Time | Unix Time Stamp | R | | | | |
| 1088 | 0440 | float | 2 | VAR | Quadrant 2 Min Reactive Power | 1 | R | | | | |
| 1090 | 0442 | uint | 2 | Time | Quadrant 2 Min Reactive Power Time | Unix Time Stamp | R | | | | |

| | | | | | | | | | | |
|------|------|-------|---|------|---|-----------------|---|--|---|---|
| 1092 | 0444 | float | 2 | VAR | Quadrant 3 Min Reactive Power | 1 | R | | | |
| 1094 | 0446 | uint | 2 | Time | Quadrant 3 Min Reactive Power Time | Unix Time Stamp | R | | | |
| 1096 | 0448 | float | 2 | VAR | Quadrant 4 Min Reactive Power | 1 | R | | | |
| 1098 | 044A | uint | 2 | Time | Quadrant 4 Min Reactive Power Time | Unix Time Stamp | R | | | |
| 1100 | 044C | float | 2 | VAR | Quadrant Total Min Reactive Power | 1 | R | | | |
| 1102 | 044E | uint | 2 | Time | Quadrant Total Min Reactive Power Time | Unix Time Stamp | R | | | |
| 1104 | 0450 | float | 2 | VA | L1 Phase Min Apperant Power | 1 | R | | | |
| 1106 | 0452 | uint | 2 | Time | L1 Phase Min Apperant Power Time | Unix Time Stamp | R | | | |
| 1108 | 0454 | float | 2 | VA | L2 Phase Min Apperant Power | 1 | R | | | |
| 1110 | 0456 | uint | 2 | Time | L2 Phase Min Apperant Power Time | Unix Time Stamp | R | | | |
| 1112 | 0458 | float | 2 | VA | L3 Phase Min Apperant Power | 1 | R | | | |
| 1114 | 045A | uint | 2 | Time | L3 Phase Min Apperant Power Time | Unix Time Stamp | R | | | |
| 1116 | 045C | uint | 2 | - | N / A | 1 | R | | | |
| 1118 | 045E | uint | 2 | - | N / A | 1 | R | | | |
| 1120 | 0460 | float | 2 | VA | Min Total Import Apperant Power | 1 | R | | | |
| 1122 | 0462 | uint | 2 | Time | Min Total Import Apperant Power Time | Unix Time Stamp | R | | | |
| 1124 | 0464 | float | 2 | VA | Min Total Export Apperant Power | 1 | R | | | |
| 1126 | 0466 | uint | 2 | Time | Min Total Export Apperant Power Time | Unix Time Stamp | R | | | |
| 1128 | 0468 | float | 2 | VA | Min Total Apperant Power | 1 | R | | | |
| 1130 | 046A | uint | 2 | Time | Min Total Apperant Power Time | Unix Time Stamp | R | | | |
| 1132 | 046C | float | 2 | Hz | Min System Frequency | 1 | R | | ✓ | ✓ |
| 1134 | 046E | uint | 2 | Time | Min System Frequency Time | Unix Time Stamp | R | | | |
| 1136 | 0470 | float | 2 | % | Min. Unbalance | 1 | R | | | |
| 1138 | 0472 | uint | 2 | Time | Min. Unbalance Time | Unix Time Stamp | R | | | |
| 1140 | 0474 | uint | 2 | - | N / A | 1 | R | | | |
| 1142 | 0476 | uint | 2 | - | N / A | 1 | R | | | |
| 1144 | 0478 | uint | 2 | - | N / A | 1 | R | | | |
| 1146 | 047A | uint | 2 | - | N / A | 1 | R | | | |
| 1148 | 047C | uint | 2 | - | N / A | 1 | R | | | |
| 1150 | 047E | uint | 2 | - | N / A | 1 | R | | | |
| 1152 | 0480 | uint | 2 | - | N / A | 1 | R | | | |
| 1154 | 0482 | uint | 2 | - | N / A | 1 | R | | | |
| 1156 | 0484 | uint | 2 | - | N / A | 1 | R | | | |
| 1158 | 0486 | uint | 2 | - | N / A | 1 | R | | | |
| 1160 | 0488 | uint | 2 | - | N / A | 1 | R | | | |
| 1162 | 048A | uint | 2 | - | N / A | 1 | R | | | |
| 1164 | 048C | uint | 2 | - | N / A | 1 | R | | | |
| 1166 | 048E | uint | 2 | - | N / A | 1 | R | | | |
| 1168 | 0490 | uint | 2 | - | N / A | 1 | R | | | |
| 1170 | 0492 | uint | 2 | - | N / A | 1 | R | | | |
| 1172 | 0494 | uint | 2 | - | N / A | 1 | R | | | |
| 1174 | 0496 | uint | 2 | - | N / A | 1 | R | | | |
| 1176 | 0498 | uint | 2 | - | N / A | 1 | R | | | |
| 1178 | 049A | uint | 2 | - | N / A | 1 | R | | | |
| 1180 | 049C | uint | 2 | - | N / A | 1 | R | | | |
| 1182 | 049E | uint | 2 | - | N / A | 1 | R | | | |
| 1184 | 04A0 | float | 2 | A | L1 Phase Current Demand | 1 | R | | ✓ | ✓ |
| 1186 | 04A2 | float | 2 | A | L2 Phase Current Demand | 1 | R | | ✓ | ✓ |
| 1188 | 04A4 | float | 2 | A | L3 Phase Current Demend | 1 | R | | ✓ | ✓ |
| 1190 | 04A6 | uint | 2 | - | N / A | 1 | R | | | |
| 1192 | 04A8 | float | 2 | A | IN Current Demand | 1 | R | | | |
| 1194 | 04AA | float | 2 | W | L1 Phase Active Power Demand | 1 | R | | | |
| 1196 | 04AC | float | 2 | W | L2 Phase Active Power Demand | 1 | R | | | |
| 1198 | 04AE | float | 2 | W | L3 Phase Active Power Demand | 1 | R | | | |
| 1200 | 04B0 | uint | 2 | - | N / A | 1 | R | | | |
| 1202 | 04B2 | float | 2 | W | Total Import Active Power Demand | 1 | R | | | |
| 1204 | 04B4 | float | 2 | W | Total Export Active Power Demand | 1 | R | | | |
| 1206 | 04B6 | float | 2 | W | Total Active Power Demand | 1 | R | | | |
| 1208 | 04B8 | float | 2 | VAR | L1 Phase Reactive Power Demand | 1 | R | | | |
| 1210 | 04BA | float | 2 | VAR | L2 Phase Reactive Power Demand | 1 | R | | | |
| 1212 | 04BC | float | 2 | VAR | L3 Phase Reactive Power Demand | 1 | R | | | |
| 1214 | 04BE | uint | 2 | - | N / A | 1 | R | | | |
| 1216 | 04C0 | float | 2 | VAR | Quadrant 1 Total Reactive Power Demand | 1 | R | | | |
| 1218 | 04C2 | float | 2 | VAR | Quadrant 2 Total Reactive Power Demand | 1 | R | | | |
| 1220 | 04C4 | float | 2 | VAR | Quadrant 3 Total Reactive Power Demand | 1 | R | | | |
| 1222 | 04C6 | float | 2 | VAR | Quadrant 4 Total Reactive Power Demand | 1 | R | | | |
| 1224 | 04C8 | float | 2 | VAR | Total Reactive Power Demand | 1 | R | | | |
| 1226 | 04CA | float | 2 | VA | L1 Phase Apperant Power Demand | 1 | R | | | |
| 1228 | 04CC | float | 2 | VA | L2 Phase Apperant Power Demand | 1 | R | | | |
| 1230 | 04CE | float | 2 | VA | L3 Phase Apperant Power Demand | 1 | R | | | |
| 1232 | 04D0 | uint | 2 | - | N / A | 1 | R | | | |
| 1234 | 04D2 | float | 2 | VA | Total Import Apperant Power Demand | 1 | R | | | |
| 1236 | 04D4 | float | 2 | VA | Total Export Apperant Power Demand | 1 | R | | | |
| 1238 | 04D6 | float | 2 | VA | Total Apperant Power Demand | 1 | R | | | |
| 1240 | 04D8 | float | 2 | A | L1 Phase Max. Current Demand | 1 | R | | ✓ | ✓ |
| 1242 | 04DA | uint | 2 | Time | L1 Phase Max. Current Demand Time | Unix Time Stamp | R | | ✓ | ✓ |
| 1244 | 04DC | float | 2 | A | L2 Phase Max. Current Demand | 1 | R | | ✓ | ✓ |
| 1246 | 04DE | uint | 2 | Time | L2 Phase Max. Current Demand Time | Unix Time Stamp | R | | ✓ | ✓ |
| 1248 | 04E0 | float | 2 | A | L3 Phase Max. Current Demand | 1 | R | | ✓ | ✓ |
| 1250 | 04E2 | uint | 2 | Time | L3 Phase Max. Current Demand Time | Unix Time Stamp | R | | ✓ | ✓ |
| 1252 | 04E4 | uint | 2 | - | N / A | 1 | R | | | |
| 1254 | 04E6 | uint | 2 | - | N / A | 1 | R | | | |
| 1256 | 04E8 | float | 2 | W | PL1 Max Active Power Demand | 1 | R | | | |
| 1258 | 04EA | uint | 2 | Time | PL1 Max Active Power Demand Time | Unix Time Stamp | R | | | |
| 1260 | 04EC | float | 2 | W | PL2 Max Active Power Demand | 1 | R | | | |
| 1262 | 04EE | uint | 2 | Time | PL2 Max Active Power Demand Time | Unix Time Stamp | R | | | |
| 1264 | 04F0 | float | 2 | W | PL3 Max Active Power Demand | 1 | R | | | |
| 1266 | 04F2 | uint | 2 | Time | PL3 Max Active Power Demand Time | Unix Time Stamp | R | | | |
| 1268 | 04F4 | float | 2 | W | Total Active Max Power Demand | 1 | R | | | |
| 1270 | 04F6 | uint | 2 | Time | Total Active Max Power Demand Time | Unix Time Stamp | R | | | |
| 1272 | 04F8 | float | 2 | W | Total Active Import Max Power Demand | 1 | R | | | |
| 1274 | 04FA | uint | 2 | Time | Total Active Import Max Power Demand Time | Unix Time Stamp | R | | | |
| 1276 | 04FC | float | 2 | W | Total Active Export Max Power Demand | 1 | R | | | |
| 1278 | 04FE | uint | 2 | Time | Total Active Export Max Power Demand Time | Unix Time Stamp | R | | | |
| 1280 | 0500 | float | 2 | VA | SL1 Max Active Power Demand | 1 | R | | | |
| 1282 | 0502 | uint | 2 | Time | SL1 Max Active Power Demand Time | Unix Time Stamp | R | | | |
| 1284 | 0504 | float | 2 | VA | SL2 Max Active Power Demand | 1 | R | | | |
| 1286 | 0506 | uint | 2 | Time | SL2 Max Active Power Demand Time | Unix Time Stamp | R | | | |
| 1288 | 0508 | float | 2 | VA | SL3 Max Active Power Demand | 1 | R | | | |
| 1290 | 050A | uint | 2 | Time | SL3 Max Active Power Demand Time | Unix Time Stamp | R | | | |
| 1292 | 050C | float | 2 | VA | Total Apperant Max Power Demand | 1 | R | | | |
| 1294 | 050E | uint | 2 | Time | Total Apperant Max Power Demand Time | Unix Time Stamp | R | | | |
| 1296 | 0510 | float | 2 | VA | Total Apperant Import Max Power Demand | 1 | R | | | |
| 1298 | 0512 | uint | 2 | Time | Total Apperant Import Max Power Demand Time | Unix Time Stamp | R | | | |
| 1300 | 0514 | float | 2 | VA | Total Apperant Export Max Power Demand | 1 | R | | | |
| 1302 | 0516 | uint | 2 | Time | Total Apperant Export Max Power Demand Time | Unix Time Stamp | R | | | |
| 1304 | 0518 | float | 2 | A | L1 Phase Sum Current Demand | 1 | R | | ✓ | ✓ |
| 1306 | 051A | float | 2 | A | L2 Phase Sum Current Demand | 1 | R | | ✓ | ✓ |
| 1308 | 051C | float | 2 | A | L3 Phase Sum Current Demand | 1 | R | | ✓ | ✓ |
| 1310 | 051E | float | 2 | A | IN Phase Sum Current Demand | 1 | R | | ✓ | ✓ |
| 1312 | 0520 | float | 2 | W | PL1 Sum Active Power Demand | 1 | R | | | |
| 1314 | 0522 | float | 2 | W | PL2 Sum Active Power Demand | 1 | R | | | |
| 1316 | 0524 | float | 2 | W | PL3 Sum Active Power Demand | 1 | R | | | |
| 1318 | 0526 | float | 2 | W | Total Active Sum. Power Demand | 1 | R | | | |
| 1320 | 0528 | float | 2 | W | Total Active Import Sum. Power Demand | 1 | R | | | |
| 1322 | 052A | float | 2 | W | Total Active Export Sum. Power Demand | 1 | R | | | |
| 1324 | 052C | float | 2 | VA | SL1 Sum Active Power Demand | 1 | R | | | |
| 1326 | 052E | float | 2 | VA | SL2 Sum Active Power Demand | 1 | R | | | |
| 1328 | 0530 | float | 2 | VA | SL3 Sum Active Power Demand | 1 | R | | | |
| 1330 | 0532 | float | 2 | VA | Total Apperant Sum. Power Demand | 1 | R | | | |
| 1332 | 0534 | float | 2 | VA | Total Apperant Import Sum. Power Demand | 1 | R | | | |
| 1334 | 0536 | float | 2 | VA | Total Apperant Export Sum. Power Demand | 1 | R | | | |

ALARM STATUS

| Supported Functions | Start Address | Register Counts |
|---------------------|---------------|-----------------|
|---------------------|---------------|-----------------|

| | | |
|------------------------|-------|----|
| Read holding registers | 20000 | 26 |
|------------------------|-------|----|

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|-------|--|------------|-----|-------|---------|----------|
| 20000 | 4E20 | uint | 2 | - | N/A | 1 | R | | | ✓ |
| | | | | | Bit 0 : L1 Phase Loss Bit 1 : L2 Phase Loss Bit 2 : L3 Phase Loss Bit 3 : Null Bit 4 : Null Bit 5 : Inverse Phase Sequence Bit 6 : Null Bit 7 : Null Bit 8 : Null Bit 9 : Null Bit 10 : Null Bit 11 : Null Bit 12 : Null Bit 13 : Null Bit 14 : Null Bit 15 : Null Bit 16 : Null Bit 17 : Null Bit 18 : Null Bit 19 : Null Bit 20 : Null Bit 21 : Null Bit 22 : Null Bit 23 : Null Bit 24 : Custom Alarm 1 Bit 25 : Custom Alarm 2 Bit 26 : Custom Alarm 3 | | R | | | ✓ |
| 20002 | 4E22 | uint | 2 | - | Bit 0 : User Alarm 1 High Trip Bit 1 : User Alarm 2 High Trip Bit 2 : User Alarm 3 High Trip Bit 3 : User Alarm 4 High Trip Bit 4 : User Alarm 5 High Trip Bit 5 : User Alarm 6 High Trip Bit 6 : User Alarm 7 High Trip Bit 7 : User Alarm 8 High Trip Bit 8 : User Alarm 1 Low Trip Bit 9 : User Alarm 2 Low Trip Bit 10 : User Alarm 3 Low Trip Bit 11 : User Alarm 4 Low Trip Bit 12 : User Alarm 5 Low Trip Bit 13 : User Alarm 6 Low Trip Bit 14 : User Alarm 7 Low Trip Bit 15 : User Alarm 8 Low Trip Bit 16 : User Alarm 1 High Peak Bit 17 : User Alarm 2 High Peak Bit 18 : User Alarm 3 High Peak Bit 19 : User Alarm 4 High Peak Bit 20 : User Alarm 5 High Peak Bit 21 : User Alarm 6 High Peak Bit 22 : User Alarm 7 High Peak Bit 23 : User Alarm 8 High Peak Bit 24 : User Alarm 1 Low Peak Bit 25 : User Alarm 2 Low Peak Bit 26 : User Alarm 3 Low Peak Bit 27 : User Alarm 4 Low Peak Bit 28 : User Alarm 5 Low Peak Bit 29 : User Alarm 6 Low Peak Bit 30 : User Alarm 7 Low Peak Bit 31 : User Alarm 8 Low Peak | | R | | | ✓ |
| 20004 | 4E24 | uint | 2 | - | N/A | | | | | |
| 20006 | 4E26 | uint | 2 | - | N/A | | R | | | |
| 20008 | 4E28 | uint | 2 | - | N/A | | R | | | |
| 20010 | 4E2A | uint | 2 | - | N/A | | R | | | |
| 20012 | 4E2C | uint | 2 | - | N/A | | R | | | |
| 20014 | 4E2E | uint | 2 | - | N/A | | R | | | |
| 20016 | 4E30 | uint | 2 | - | N/A | | R | | | |
| 20018 | 4E32 | uint | 2 | - | N/A | | R | | | |
| 20020 | 4E34 | uint | 2 | - | N/A | | R | | | |
| 20022 | 4E36 | uint | 2 | - | N/A | | R | | | |
| 20024 | 4E38 | uint | 2 | - | N/A | | R | | | |

ALARMS

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Read holding registers | 20500 | 32 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|-------|---|------------|-----|-------|---------|----------|
| 20500 | 5014 | uint | 2 | - | Null Alarm Source | 1 | R | | | ✓ |
| 20502 | 5016 | ushort | 1 | - | Null Alarm Type | 1 | R | | | ✓ |
| 20503 | 5017 | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20504 | 5018 | uint | 2 | - | L1 Voltage Loss Alarm Source | 1 | R | | | ✓ |
| 20506 | 501A | ushort | 1 | - | L1 Voltage Loss Alarm Type | 1 | R | | | ✓ |
| 20507 | 501B | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20508 | 501C | uint | 2 | - | L2 Voltage Loss Alarm Source | 1 | R | | | ✓ |
| 20510 | 501E | ushort | 1 | - | L2 Voltage Loss Alarm Type | 1 | R | | | ✓ |
| 20511 | 501F | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20512 | 5020 | uint | 2 | - | L3 Voltage Loss Alarm Source | 1 | R | | | ✓ |
| 20514 | 5022 | ushort | 1 | - | L3 Voltage Loss Alarm Type | 1 | R | | | ✓ |
| 20515 | 5023 | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20516 | 5024 | uint | 2 | - | LN Voltage Loss Alarm Source | 1 | R | | | ✓ |
| 20518 | 5026 | ushort | 1 | - | LN Voltage Loss Alarm Type | 1 | R | | | ✓ |
| 20519 | 5027 | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20520 | 5028 | uint | 2 | - | Wrong Phase Angle Alarm Source | 1 | R | | | ✓ |
| 20522 | 502A | ushort | 1 | - | Wrong Phase Angle Alarm Type | 1 | R | | | ✓ |
| 20523 | 502B | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20524 | 502C | uint | 2 | - | Wrong Phase Sequence Alarm Source | 1 | R | | | ✓ |
| 20526 | 502E | ushort | 1 | - | Wrong Phase Sequence Alarm Type | 1 | R | | | ✓ |
| 20527 | 502F | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |
| 20528 | 5030 | uint | 2 | - | L1 Current Connection Loss Alarm Source | 1 | R | | | ✓ |
| 20530 | 5032 | ushort | 1 | - | L1 Current Connection Loss Alarm Type | 1 | R | | | ✓ |
| 20531 | 5033 | ushort | 1 | - | Modbus Alarm Dynamic Status | 1 | R | | | ✓ |

NETWORK SETTINGS

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Read holding registers | 16384 | 32 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|-------|--|------------|-----|-------|---------|----------|
| 16384 | 4000 | uint | 2 | - | Network Type: 0: 3P4W 1: 3P3W 2: 3P4W Balanced 3: 3P3W Balanced 4: ARON | 1 | R | | ✓ | ✓ |
| 16386 | 4002 | uint | 2 | - | Current Transformer Secondary: 0: 1A 1: 5A | 1 | R | | ✓ | ✓ |
| 16388 | 4004 | float | 2 | - | Current Transformer Primary: 5 - 9999 | 1 | R | | ✓ | ✓ |

| | | | | | | | | | | |
|-------|------|-------|---|--|--|---|---|--|---|---|
| 16390 | 4006 | uint | 2 | | Voltage Transformer Present: 0: None 1: Present | 1 | R | | ✓ | ✓ |
| 16392 | 4008 | float | 2 | | Voltage Transformer Secondary: 50 – 300 | 1 | R | | ✓ | ✓ |
| 16394 | 400A | float | 2 | | Voltage Transformer Primary: 100-999900 | 1 | R | | ✓ | ✓ |
| 16396 | 400C | uint | 2 | | Demand Time: 0: 60 seconds 1: 120 seconds 2: 300 seconds 3: 600 seconds 4: 1200 seconds 5: 1800 seconds 6: 3600 seconds | 1 | R | | ✓ | ✓ |
| 16398 | 400E | uint | 2 | | N/A | 1 | R | | | |
| 16400 | 4010 | uint | 2 | | N/A | 1 | R | | | |
| 16402 | 4012 | uint | 2 | | System Frequency: 0: 50 Hz 1: 60 Hz | 1 | R | | ✓ | ✓ |
| 16404 | 4014 | uint | 2 | | N/A | 1 | R | | | |
| 16406 | 4016 | uint | 2 | | N/A | 1 | R | | | |
| 16408 | 4018 | uint | 2 | | N/A | 1 | R | | | |
| 16410 | 401A | uint | 2 | | N/A | 1 | R | | | |
| 16412 | 401C | uint | 2 | | N/A | 1 | R | | | |
| 16414 | 401E | uint | 2 | | N/A | 1 | R | | | |

Setup

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Read holding registers | 17000 | 374 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|---------|---|------------|-----|------------------|---------|----------|
| 17000 | 4268 | uint | 2 | - | Network Type 0: 3P4W 1: 3P3W 2: 3P4W Balanced 3: 3P3W Balanced 4: ARON | 1 | R/W | 0-4 | ✓ | ✓ |
| 17002 | 426A | uint | 2 | A | Current Transformer Secondary 0: 1A 1: 5A | 1 | R/W | 0-1 | ✓ | ✓ |
| 17004 | 426C | float | 2 | - | Current Transformer Primary 5.0 – 9999.0 | 1 | R/W | 5.0 - 9999.0 | ✓ | ✓ |
| 17006 | 426E | uint | 2 | - | Voltage Transformer Present 0: None 1: Present | 1 | R/W | 0-1 | ✓ | ✓ |
| 17008 | 4270 | float | 2 | V | Voltage Transformer Secondary 50.0 – 300.0 | 1 | R/W | 50.0 - 300.0 | ✓ | ✓ |
| 17010 | 4272 | float | 2 | V | Voltage Transformer Primary 100 - 999900 | 1 | R/W | 100.0 - 999900.0 | ✓ | ✓ |
| 17012 | 4274 | uint | 2 | Seconds | Demand Time 0: 60 seconds 1: 120 seconds 2: 300 seconds 3: 600 seconds 4: 1200 seconds 5: 1800 seconds 6: 3600 seconds | 1 | R/W | 0-6 | ✓ | ✓ |
| 17014 | 4276 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17016 | 4278 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17018 | 427A | uint | 2 | V | System Nominal Frequency Value 0: 50 Hz 1: 60 Hz | 1 | R/W | 0-1 | ✓ | ✓ |
| 17020 | 427C | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17022 | 427E | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17024 | 4280 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17026 | 4282 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17028 | 4284 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17030 | 4286 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17032 | 4288 | uint | 2 | - | Digital Output 1 Type 0: Digital Output 1: Pulse 2: RS-485 | 1 | R/W | 0-2 | ✓ | ✓ |
| 17034 | 428A | uint | 2 | - | Digital Output 2 Type 0: Digital Output 1: Pulse 2: RS-485 | 1 | R/W | 0-2 | ✓ | ✓ |
| 17036 | 428C | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17038 | 428E | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17040 | 4290 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17042 | 4292 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17044 | 4294 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17046 | 4296 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17048 | 4298 | uint | 2 | - | Relay 1 Type 0: Relay 2: RS-485 | 1 | R/W | 0 / 2 | | ✓ |
| 17050 | 429A | uint | 2 | - | Relay 2 Type 0: Relay 2: RS-485 | 1 | R/W | 0 / 2 | | ✓ |
| 17052 | 429C | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17054 | 429E | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17056 | 42A0 | float | 2 | - | N/A | 1 | R/W | - | | |
| 17058 | 42A2 | float | 2 | - | N/A | 1 | R/W | - | | |
| 17060 | 42A4 | float | 2 | - | N/A | 1 | R/W | - | | |
| 17062 | 42A6 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17064 | 42A8 | uint | 2 | - | Digital Input 1 Type 0: Digital Input 1: Pulse 2: Jenerator | 1 | R/W | 0 - 2 | | |
| 17066 | 42AA | uint | 2 | - | Digital Input 2 Type 0: Digital Input 2: Jenerator | 1 | R/W | 0 - 2 | | |
| 17068 | 42AC | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17070 | 42AE | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17072 | 42B0 | float | 2 | - | N/A | 1 | R/W | - | | |
| 17074 | 42B2 | float | 2 | - | N/A | 1 | R/W | - | | |
| 17076 | 42B4 | float | 2 | - | N/A | 1 | R/W | - | | |
| 17078 | 42B6 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17080 | 42B8 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17082 | 42BA | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17084 | 42BC | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17086 | 42BE | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17088 | 42C0 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17090 | 42C2 | float | 2 | - | Pulse Input 1 Ratio 1.0 – 9999.0 | 1 | R/W | 1.0 - 9999.0 | | |
| 17092 | 42C4 | uint | 2 | - | Pulse Input 1 Parameter Unit 0: kWh 1: kVAh 2: kVAh | 1 | R/W | 0 - 2 | | |
| 17094 | 42C6 | uint | 2 | - | Pulse Input 1 Width 20 – 1000 | 1 | R/W | 20 - 1000 | | |
| 17096 | 42C8 | float | 2 | - | Pulse Input 2 Ratio 1 – 9999 | 1 | R/W | 1.0 - 9999.0 | | |

| | | | | | | | | | | |
|-------|------|-------|---|----|---|---|-----|-----------|--|---|
| 17098 | 42CA | uint | 2 | - | Pulse Input 2 Parameter Unit 0: kWh 1: kVAh 2: KVAh | 1 | R/W | 0-2 | | |
| 17100 | 42CC | uint | 2 | - | Pulse Input 2 Width 20-1000 | 1 | R/W | 20-1000 | | |
| 17102 | 42CE | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17104 | 42DD | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17106 | 42D2 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17108 | 42D4 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17110 | 42D6 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17112 | 42D8 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17114 | 42DA | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17116 | 42DC | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17118 | 42DE | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17120 | 42E0 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17122 | 42E2 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17124 | 42E4 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17126 | 42E6 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17128 | 42E8 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17130 | 42EA | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17132 | 42EC | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17134 | 42EE | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17136 | 42F0 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17138 | 42F2 | uint | 2 | - | Pulse Output 1 Parameter 0: Active Import Energy (AI) 1: Active Export Energy (AE) 2: Inductive Reactive Energy (rL) 3: Capacitive Reactive Energy (rC) 4: Apparent Import Energy (SI) 5: Jenerator Active Import (JAI) 6: Jenerator Apparent Import (JSI) | 1 | R/W | 0-6 | | |
| 17140 | 42F4 | uint | 2 | Wh | Pulse Output 1 Ratio: 0: 1 1: 10 2: 100 3: 1000 4: 10000 5: 100000 6: 1000000 7: 10000000 8: 100000000 | 1 | R/W | 0-8 | | |
| 17142 | 42F6 | uint | 2 | ms | Pulse Output 1 Width: 20-1000 | 1 | R/W | 20-1000 | | |
| 17144 | 42F8 | uint | 2 | ms | Pulse Output 1 Pulse Duty 20-1000 | 1 | R/W | 20-1000 | | |
| 17146 | 42FA | uint | 2 | - | Pulse Output 2 Parameter 0: Active Import Energy (AI) 1: Active Export Energy (AE) 2: Inductive Reactive Energy (rL) 3: Capacitive Reactive Energy (rC) 4: Apparent Import Energy (SI) 5: Jenerator Active Import (JAI) 6: Jenerator Apparent Import (JSI) | 1 | R/W | 0-6 | | |
| 17148 | 42FC | uint | 2 | Wh | Pulse Output 2 Ratio: 0: 1 1: 10 2: 100 3: 1000 4: 10000 5: 100000 6: 1000000 7: 10000000 8: 100000000 | 1 | R/W | 0-8 | | |
| 17150 | 42FE | uint | 2 | ms | Pulse Output 2 Width: 20-1000 | 1 | R/W | 20-1000 | | |
| 17152 | 4300 | uint | 2 | ms | Pulse Output 2 Pulse Duty 20-1000 | 1 | R/W | 20-1000 | | |
| 17154 | 4302 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17156 | 4304 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17158 | 4306 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17160 | 4308 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17162 | 430A | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17164 | 430C | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17166 | 430E | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17168 | 4310 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17170 | 4312 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17172 | 4314 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17174 | 4316 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17176 | 4318 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17178 | 431A | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17180 | 431C | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17182 | 431E | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17184 | 4320 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17186 | 4322 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17188 | 4324 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17190 | 4326 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17192 | 4328 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17194 | 432A | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17196 | 432C | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17198 | 432E | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17200 | 4330 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17202 | 4332 | uint | 2 | - | N/A | 1 | R/W | - | | |
| 17204 | 4334 | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | | ✓ |
| 17206 | 4336 | uint | 2 | - | Alarm 1 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | | ✓ |
| 17208 | 4338 | float | 2 | - | Alarm 1 On Time 0.0-999.9 | 1 | R/W | 0.0-999.0 | | ✓ |
| 17210 | 433A | float | 2 | - | Alarm 1 Off Time 0.0-999.9 | 1 | R/W | 0.0-999.0 | | ✓ |

| | | | | | | | | | |
|-------|------|-------|---|---|---|---|-----|----------------------|---|
| 17212 | 433C | uint | 2 | - | Alarm 1 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | ✓ |
| 17214 | 433E | float | 2 | - | Alarm 1 Limit Value | 1 | R/W | Depends on parameter | ✓ |
| 17216 | 4340 | uint | 2 | - | Alarm 1 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | ✓ |
| 17218 | 4342 | float | 2 | - | Alarm 1 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | ✓ |
| 17220 | 4344 | uint | 2 | - | N / A | 1 | R/W | - | ✓ |
| 17222 | 4346 | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | ✓ |
| 17224 | 4348 | uint | 2 | - | Alarm 2 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | ✓ |
| 17226 | 434A | float | 2 | - | Alarm 2 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17228 | 434C | float | 2 | - | Alarm 2 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17230 | 434E | uint | 2 | - | Alarm 2 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | ✓ |
| 17232 | 4350 | float | 2 | - | Alarm 2 Limit Value | 1 | R/W | Depends on parameter | ✓ |
| 17234 | 4352 | uint | 2 | - | Alarm 2 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | ✓ |
| 17236 | 4354 | float | 2 | - | Alarm 2 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | ✓ |
| 17238 | 4356 | uint | 2 | - | N / A | 1 | R/W | - | ✓ |
| 17240 | 4358 | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | ✓ |
| 17242 | 435A | uint | 2 | - | Alarm 3 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | ✓ |
| 17244 | 435C | float | 2 | - | Alarm 3 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17246 | 435E | float | 2 | - | Alarm 3 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |

| | | | | | | | | | |
|-------|------|-------|---|---|---|---|-----|----------------------|---|
| 17248 | 4360 | uint | 2 | - | Alarm 3 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | ✓ |
| 17250 | 4362 | float | 2 | - | Alarm 3 Limit Value | 1 | R/W | Depends on parameter | ✓ |
| 17252 | 4364 | uint | 2 | - | Alarm 3 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | ✓ |
| 17254 | 4366 | float | 2 | - | Alarm 3 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | ✓ |
| 17256 | 4368 | uint | 2 | - | N / A | 1 | R/W | - | |
| 17258 | 436A | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | ✓ |
| 17260 | 436C | uint | 2 | - | Alarm 4 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | ✓ |
| 17262 | 436E | float | 2 | - | Alarm 4 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17264 | 4370 | float | 2 | - | Alarm 4 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17266 | 4372 | uint | 2 | - | Alarm 4 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | ✓ |
| 17268 | 4374 | float | 2 | - | Alarm 4 Limit Value | 1 | R/W | Depends on parameter | ✓ |
| 17270 | 4376 | uint | 2 | - | Alarm 4 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | ✓ |
| 17272 | 4378 | float | 2 | - | Alarm 4 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | ✓ |
| 17274 | 437A | uint | 2 | - | N / A | 1 | R/W | - | |
| 17276 | 437C | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | ✓ |
| 17278 | 437E | uint | 2 | - | Alarm 5 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | ✓ |
| 17280 | 4380 | float | 2 | - | Alarm 5 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17282 | 4382 | float | 2 | - | Alarm 5 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |

| | | | | | | | | | |
|-------|------|-------|---|---|---|---|-----|----------------------|---|
| 17284 | 4384 | uint | 2 | - | Alarm 5 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | ✓ |
| 17286 | 4386 | float | 2 | - | Alarm 5 Limit Value | 1 | R/W | Depends on parameter | ✓ |
| 17288 | 4388 | uint | 2 | - | Alarm 5 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | ✓ |
| 17290 | 438A | float | 2 | - | Alarm 5 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | ✓ |
| 17292 | 438C | uint | 2 | - | N/A | 1 | R/W | - | ✓ |
| 17294 | 438E | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | ✓ |
| 17296 | 4390 | uint | 2 | - | Alarm 6 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | ✓ |
| 17298 | 4392 | float | 2 | - | Alarm 6 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17300 | 4394 | float | 2 | - | Alarm 6 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17302 | 4396 | uint | 2 | - | Alarm 6 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | ✓ |
| 17304 | 4398 | float | 2 | - | Alarm 6 Limit Value | 1 | R/W | Depends on parameter | ✓ |
| 17306 | 439A | uint | 2 | - | Alarm 6 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | ✓ |
| 17308 | 439C | float | 2 | - | Alarm 6 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | ✓ |
| 17310 | 439E | uint | 2 | - | N/A | 1 | R/W | - | ✓ |
| 17312 | 43A0 | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | ✓ |
| 17314 | 43A2 | uint | 2 | - | Alarm 7 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | ✓ |
| 17316 | 43A4 | float | 2 | - | Alarm 7 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |
| 17318 | 43A6 | float | 2 | - | Alarm 7 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | ✓ |

| | | | | | | | | | | |
|-------|------|-------|---|---|---|---|-----|----------------------|---|---|
| 17320 | 43A8 | uint | 2 | - | Alarm 7 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | | ✓ |
| 17322 | 43AA | float | 2 | - | Alarm 7 Limit Value | 1 | R/W | Depends on parameter | | ✓ |
| 17324 | 43AC | uint | 2 | - | Alarm 7 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | | ✓ |
| 17326 | 43AE | float | 2 | - | Alarm 7 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | | ✓ |
| 17328 | 43B0 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17330 | 43B2 | uint | 2 | - | 0: OFF 1: VLN 2: VLL 3: I 4: I neutral 5: I-demand 6: I-neutral demand 7: Frequency 8: Cos 9: Total Cos 10: Active Power 11: Reactive Power 12: Apparent Power 13: Total Active Power 14: Total Reactive Power 15: Total Apparent Power 16: Active Power Demand 17: Null 18: Apparent Power Demand 19: Total Active Power Demand 20: Null 21: Total Apparent Power Demand 22: THD V 23: THD U 24: THD I 25: Total Operating Hour 26: Working Hour | 1 | R/W | 0-28 | | ✓ |
| 17332 | 43B4 | uint | 2 | - | Alarm 8 Operand 0: Less 1: Greater | 1 | R/W | 0-1 | | ✓ |
| 17334 | 43B6 | float | 2 | - | Alarm 8 On Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | | ✓ |
| 17336 | 43B8 | float | 2 | - | Alarm 8 Off Time 0.0 -- 999.9 | 1 | R/W | 0.0-9999.0 | | ✓ |
| 17338 | 43BA | uint | 2 | - | Alarm 8 Output: 0: None 1: Digital Output 1 2: Digital Output 2 3: Null 4: Null 5: Null 6: Null 7: Null 8: Null 9: Relay 1 10: Relay 2 11: Null 12: Null 13: Null 14: Null 15: Null 16: Null | 1 | R/W | 0-16 | | ✓ |
| 17340 | 43BC | float | 2 | - | Alarm 8 Limit Value | 1 | R/W | Depends on parameter | | ✓ |
| 17342 | 43BE | uint | 2 | - | Alarm 8 Output Function 0: Standart 1: Inverse 2: Latch | 1 | R/W | 0-2 | | ✓ |
| 17344 | 43C0 | float | 2 | - | Alarm 8 Hysteresis 0.0 -- 90.0 | 1 | R/W | 0.0-90.0 | | ✓ |
| 17346 | 43C2 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17348 | 43C4 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17350 | 43C6 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17352 | 43C8 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17354 | 43CA | uint | 2 | - | Modbus Protocol 0: Modbus 1: ENTBUS | 1 | R/W | 0-1 | ✓ | ✓ |
| 17356 | 43CC | uint | 2 | - | Modbus Slave Address 1 -- 247 | 1 | R/W | 0-247 | ✓ | ✓ |
| 17358 | 43CE | uint | 2 | - | Modbus Baud Rate: 0: 2400 1: 4800 2: 9600 3: 19200 4: 38400 5: 57600 6: 115200 | 1 | R/W | 0-6 | ✓ | ✓ |
| 17360 | 43D0 | uint | 2 | - | Modbus Parity: 0: None 1: Odd 2: Even | 1 | R/W | 0-2 | ✓ | ✓ |
| 17362 | 43D2 | uint | 2 | - | Password Activate: 0: Passive 1: Active | 1 | R/W | 0-1 | ✓ | ✓ |
| 17364 | 43D4 | uint | 2 | - | Password: 0000-9999 | 1 | R/W | 0-9999 | ✓ | ✓ |
| 17366 | 43D6 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17368 | 43D8 | uint | 2 | - | N / A | 1 | R/W | - | | |
| 17370 | 43DA | uint | 2 | - | Language Setting: 0: Turkish 1: English 2: German 3: French | 1 | R/W | 0-3 | ✓ | ✓ |
| 17372 | 43DC | uint | 2 | - | Notification Snooze Time 0: 1 Hour 1: 8 Hour 2: 24 Hour 3: 72 Hour 4: 7 Day 5: 30 Day | 1 | R/W | 0-6 | ✓ | ✓ |

| Supported Functions | Start Address | Register Counts |
|---------------------|---------------|-----------------|
| Read Coil registers | 17966 | 8 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|-------|-------------|------------|-----|-------|---------|----------|
| 17966 | 462E | coil | 1 | - | Relay 1 | 1 | R | | | ✓ |
| 17967 | 462F | coil | 1 | - | Relay 2 | 1 | R | | | ✓ |
| 17968 | 4630 | coil | 1 | - | Relay 3 | 1 | R | | | |
| 17969 | 4631 | coil | 1 | - | Relay 4 | 1 | R | | | |
| 17970 | 4632 | coil | 1 | - | Relay 5 | 1 | R | | | |
| 17971 | 4633 | coil | 1 | - | Relay 6 | 1 | R | | | |
| 17972 | 4634 | coil | 1 | - | Relay 7 | 1 | R | | | |
| 17973 | 4635 | coil | 1 | - | Relay 8 | 1 | R | | | |

Reset Register

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Write Single registers | 19968 | 1 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|--------|-------------|-------|---|------------|-----|------------|---------|----------|
| 19968 | 4E00 | - | 1 | - | 0x0001: Voltage Log Reset 0x0002: Current Log Reset 0x0003: Power Log Reset 0x0004: THD Log Reset 0x0005: Load Profile Log Reset 0x0006: All Log Records Reset 0x0007: Active Energy Reset 0x0008: Reactive Energy Reset 0x0009: Apperant Energy Reset 0x000A: Generator Energy Reset 0x000B: Alarm and Event Log Reset 0x000C: Max Values Reset 0x000D: Min Values Reset 0x000E: Demand Reset 0x000F: Max Demand Reset 0x0010: Working Hour Reset 0x0011: Tariff Index Reset 0x0012: W / A 0x0013: Alarm Reset 0x0015: Pulse Counter 1 Reset 0x0016: Pulse Counter 2 Reset 0x0018: User Image Reset | 1 | W | 0 - 0x0019 | ✓ | ✓ |

Device Identification

| Supported Functions | Start Address | Register Counts |
|------------------------|---------------|-----------------|
| Read holding registers | 60416 | 40 |

| Address (Dec) | Address (Hex) | Format | Words count | Birim | Description | Multiplier | R/W | Range | EMM-04S | EMM-04CS |
|---------------|---------------|-----------|-------------|-----------|--------------------------|------------|-----|-------|---------|----------|
| 60416 | EC00 | ushort | 1 | - | Device ID | 1 | R | | ✓ | ✓ |
| 60417 | EC01 | ushort | 1 | - | Device ID && Versiyon No | 1 | R | | ✓ | ✓ |
| 60418 | EC02 | uint | 2 | - | Serial Number | 1 | R | | ✓ | ✓ |
| 60420 | EC04 | uint | 2 | - | Software Version | 1 | R | | ✓ | ✓ |
| 60422 | EC06 | uint | 2 | - | Hardware Version | 1 | R | | ✓ | ✓ |
| 60424 | EC08 | uint | 2 | - | Modbus Table Version | 1 | R | | ✓ | ✓ |
| 60426 | EC0A | uint | 2 | - | Boot loader version | 1 | R | | ✓ | ✓ |
| 60428 | EC0C | unix time | 2 | unix time | Fabrication Date | 1 | R | | ✓ | ✓ |
| 60430 | EC0E | unix time | 2 | unix time | Calibration Date | 1 | R | | ✓ | ✓ |
| 60432 | EC10 | uint | 2 | - | Bağlanış Test Sonucu | 1 | R | | | |
| 60434 | EC12 | ushort | 1 | - | MAC Address Part 1 | 1 | R | | | |
| 60435 | EC13 | ushort | 1 | - | MAC Address Part 2 | 1 | R | | | |
| 60436 | EC14 | ushort | 1 | - | MAC Address Part 3 | 1 | R | | | |
| 60437 | EC15 | uint | 2 | - | Reserved | 1 | R | | | |
| 60439 | EC17 | uint | 2 | - | ETH Software Version | 1 | R | | | |
| 60441 | EC19 | uint | 2 | - | ETH Boot loader version | 1 | R | | | |
| 60443 | EC1B | uint | 2 | - | Reserved | 1 | R | | | |
| 60445 | EC1D | uint | 2 | - | Ip Address | 1 | R | | | |
| 60447 | EC1F | uint | 2 | - | Subnet Mask Address | 1 | R | | | |
| 60449 | EC21 | uint | 2 | - | Gateway Address | 1 | R | | | |
| 60451 | EC23 | uint | 2 | - | DNS 1 | 1 | R | | | |
| 60453 | EC25 | uint | 2 | - | DNS Alter | 1 | R | | | |
| 60455 | EC27 | ushort | 1 | - | Connection Status | 1 | R | | | |