

## Ammeter Configuration

AMMETER DIRECT


The CT ratio is shown as the target value. Use the software to set other value

| Operating specification |  |  |
| :--- | :---: | :---: |
|  | VALUE | UNIT |
| INPUT | $0-5 \mathrm{~A}$ | I AC/DC |
| Input range (direct <br> connection) | $0-10,000 \mathrm{~A}$ | I AC |
| Input range (via current <br> transformer) | 1 | VA |
| Min CT Power Rating <br> (Burden) | DC and $30-$ <br> 400 | Hz |
| Input Current Frequency | $\mathrm{VO} / 30$ | $\mathrm{VDC} /$ |
| Max Continuous Working <br> Voltage (Current input to <br> ground) | 2.1 KVAC for <br> 1 min |  |
| Isolation | 2 | $\mathrm{~m} \Omega$ |
| Input Impedance | 1 | $\%$ |
| Accuracy | 2.4 | mA |
| Resolution | 62 | KHz |
| Sample rate | Avg DC or |  |
| RMS |  |  |
| Display modes |  |  |

## Size

Frequency Meter Configuration

$68 \times 68 \mathrm{~mm}(2.68 \mathrm{in})+\mathbf{0 . 7}-0 \mathrm{~mm}$ Size of the cutout in the panel:


| The digital readout will still show the actual measured <br> frequency even if the bar graph is out of range. |  |  |
| :--- | :---: | :---: |
| Operating specification |  |  |
|  |  |  |
| INPUT |  |  |
| VALUE |  |  |
| Input range |  |  |
| Impedance |  |  |
| Accuracy at $25^{\circ} \mathrm{C}$ |  |  |
| Resolution |  |  |
| Sample rate |  |  |
| Measurement mode |  |  |
| Measurement Category |  |  |
| Signal Level - Min |  |  |
|  |  |  |


| Specification |  |
| :---: | :---: |
|  | VALUE |
| Environment |  |
| Temperature - operating | -10 to +60 deg C |
| Temperature - storage | -40 to +70 deg C |
| Altitude | 2000 metres |
| Relative Humidity (non-condensing) - Continuous | 0-85\% |
| Relative Humidity (non-condensing) - Intermittent | 0-95\% |
| Overvoltage category (IEC664) | 11 |
| Pollution Degree (IEC664) | 2 |
| IP rating (from the front) | IP65 |
| NEMA Rating (from the front) | Type 4 \& Type 12 |
| Vibration |  |
| Shock |  |
| Power supply |  |
| Input | 100-240VAC (+/-10\%) |
| Max Power | 1.6W |
| Supply Frequency | 47-63Hz |
| Isolation | $3.6 \mathrm{KV} / 1$ min |
| Display |  |
| Number of digits | 4 |
| Digit height | 12 mm |
| Number of bar-graph segments | 40 |
| Number of starburst message characters | 4 |
| Backlight colours | Red, Green, White |
| LCD | Positive or negative |
| Digit update frequency | 0.08-21 sec |
| Bar-graph update frequency | 0.08-21 sec |
| Viewing angle | $+/-70^{\circ}$ Horizontal $+/-70^{\circ}$ Vertical |
| Open Collector Sinking Outputs |  |
| Max voltage (open collector outputs) | 34 VDC |
| Max current (open collector outputs) | 500 mA |
| Analogue Output |  |
| Output | 4-20 mA |
| Accuracy | 0.50 \% |
| Resolution | 0.02 mA |
| Connections |  |
| Type | Screw Terminals |
| Wire type | Solid or Stranded |
| Min. cable temperature rating | $70^{\circ} \mathrm{C}$ ( $158^{\circ} \mathrm{F}$ ) |
| Wire strip length | $\begin{aligned} & 6.5 \mathrm{~mm} \text { to } 7 \mathrm{~mm} \\ & \left(0.26^{\prime \prime} \text { to } 0.28^{\prime \prime}\right) \end{aligned}$ |
| Wire gauge | $0.8 \mathrm{~mm}^{2}-3.3 \mathrm{~mm}^{2}$ (18AWG to 12AWG) |
| Torque | $\begin{gathered} 0.5-0.6 \mathrm{Nm} \\ (4.42-5.31 \mathrm{lbf}-\mathrm{in}) \\ \hline \end{gathered}$ |
| In the Box |  |
| APM |  |
| Getting started \& safety guide |  |
| Gasket |  |
| Retaining clip |  |
| Dimensions \& Weight |  |
| Panel Cut-out: $68 \times 68 \mathrm{~mm}(2.68 \mathrm{in})+0.7-0 \mathrm{~mm}$ (0.02 in). Max. panel thickness: 11.0 mm . |  |
| Dimensions: Depth behind panel inside front: 55 mm (2.17in) incl. external connections. Weight: 180 grams. |  |

## Safety Warnings

WARNING: INSTALLATION AND MAINTENANCE MUST BE CARRIED OUT BY SUITABLY QUALIFIED AND COMPETENT PERSONEL ONLY. HAZARDOUS

## INSTALLATION

- Install this product in accordance with local regulations, codes and instructions
- An external fuse must be fitted in-line with the PSU. Recommended fuse: 0.5A Type F with a breaking capacity of 35A or greater. Fuse voltage rating must be greater than the maximum supply voltage.
- All conductors carrying hazardous voltage must have external switching or disconnect mechanisms fitted that provide at least 3 mm of contact separation in all poles.
- Signal cables connected to this device must not exceed 30 metres long.
- If signal cables are routed outside the building, install extra surge-protection devices
- Current measurement input, USB and all outputs: Observe maximum allowable voltages. All circuits connected to these connectors must be limited-energy and insulated by double/reinforced insulation from mains voltages according to IEC 61010-1:2010
- All conductors carrying hazardous voltage must have external switching or disconnect mechanisms fitted that provide at least 3 mm of contact separation in all poles. The switch must be suitably located; easily reached and marked as the disconnecting device.


