

DIRIS DigiBOX M

Enclosed multi-point metering solution for retrofit applications

Enclosed multi-point metering solution



conf-uj_038_a.eps

DIRIS DigiBOX 8
Centralization and display of data



Configuration with EasyConfig System.

Function

Socomec's enclosed metering line **DIRIS DigiBOX** is designed to offer a complete and modular metering solution in NEMA1,3R enclosures for indoor and outdoor use. With ease of installation for retrofit applications and factory pre-wired Plug & Play technology, DIRIS DigiBOX solutions provide considerable savings in installation costs. The solution offers the benefits of the Digiware technology.

Advantages

Plug & Play

- Factory pre-wired.
- RJ12 current sensor connection.
- Automatic detection of ratings and verification of current flow direction.
- Disconnection of the current sensor secondary under load.

Accurate

Accuracy of measurements guaranteed according to ANSI C12.20 and IEC standard 61557-12:

- Better than revenue grade: class 0.5 from 2 % to 120 % of rated current for the global measurement chain (associated with TE / TF current sensors).
- Class 0.2 for the meter alone.

Safe & reliable

- Durable NEMA 1,3R.
- cULus listed enclosures and components.
- Fused voltage connections.
- Reliable detailed wiring instructions.

Bi-Directional Metering

DIRIS Digiware measures the flow of electricity in both directions.

The solution for

- > Industry
- > Building
- > Infrastructure
- > Data center



Strong points

- > Plug & Play
- > Accurate
- > Safe & reliable

Conformity to standards

- > cULus 508A
- > UL 61010-1, CSA-C22.2 No. 61010-1, Guide PICQ, File E257746
- > IEC 61557-12



Specifications

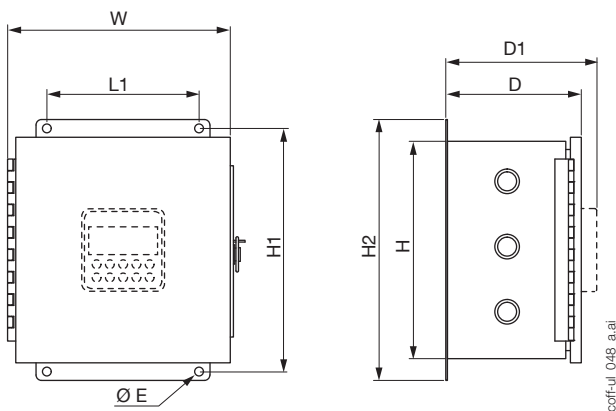
| | DigiBOX | | | | DigiBOX Pro | | | | DigiBOX Flex | |
|---|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------|--|
| | 2 | 4 | 6 | 8 | 2 | 4 | 6 | 8 | | |
| Number of metered points | 2 | 4 | 6 | 8 | 2 | 4 | 6 | 8 | Customized solution | |
| Number of current inputs | 8 | 12 | 18 | 24 | 8 | 12 | 18 | 24 | | |
| Metering modules | DIRIS Digiware | DIRIS Digiware | DIRIS Digiware | DIRIS Digiware | DIRIS Digiware | DIRIS Digiware | DIRIS Digiware | DIRIS Digiware | | |
| Multi-measurement | | | | | | | | | | |
| Currents, voltages (ph/ph and ph/n), active/reactive/apparent powers, power factor, frequency | • | • | • | • | • | • | • | • | | |
| Voltage/current unbalance | | | | | • | • | • | • | | |
| Power factor, cos Phi, tan Phi | | | | | • | • | • | • | | |
| Metering | | | | | | | | | | |
| kWh(+/-), kvarh (+/-), kVAh | • | • | • | • | • | • | • | • | | |
| Multi-tariff | • | | | | • | • | • | • | | |
| Load curves | | | | | • | • | • | • | | |
| Power Quality | | | | | | | | | | |
| THDV, THDU, THDI | • | | | | • | • | • | • | | |
| Individual harmonics V, U & I (up to rank 63) | | | | | • | • | • | • | | |
| Voltage dips, cut-offs and surges (EN50160) | | | | | • | • | • | • | | |
| Overcurrents | | | | | • | • | • | • | | |
| Alarms | | | | | • | • | • | • | | |
| Communication | RS485/Ethernet | | | | | | | | | |
| Enclosure rating | NEMA 1/3R | | | | | | | | | |
| Display & gateway | Optional | | | | | | | | | |
| Dimensions | | | | | | | | | | |
| H x W x D (inches) | 12 x 12 x 6.6 | 12 x 12 x 6.6 | 12 x 12 x 6.6 | 12 x 12 x 6.6 | 12 x 12 x 6.6 | 12 x 12 x 6.6 | 12 x 12 x 6.6 | 12 x 12 x 6.6 | | |
| References | | | | | | | | | | |
| No display | USDBB02ND0 | USDBB04ND0 | USDBB06ND0 | USDBB08ND0 | USDBP02ND0 | USDBP04ND0 | USDBP06ND0 | USDBP08ND0 | | |
| With display | USDBB02D50 | USDBB04D50 | USDBB06D50 | USDBB08D50 | USDBP02D50 | USDBP04D50 | USDBP06D50 | USDBP08D50 | | |
| Display & gateway | USDBB02D70 | USDBB04D70 | USDBB06D70 | USDBB08D70 | USDBP02D70 | USDBP04D70 | USDBP06D70 | USDBP08D70 | | |
| Customized metering and communication solution | Made to order - contact us | | | | | | | | | |

600V rated available, please consult us.

DigiBOX accessory enclosures

| Description | Reference |
|--|-------------|
| 12 x 12 x 6.6 - NEMA 3R - Enclosure only with back-plate and 2 DIN rails | USDBENC-001 |
| 12 x 10 x 6.2 - NEMA 3R - Polycarbonate Enclosure with display cutout | USDBENC-003 |

Dimensions (in)



| | H | H1 | H2 | D | D1 | L1 | W | Ø E |
|---|----|------|------|-----|----|----|----|------|
| DigiBOX and DigiBOX Pro 2, 4, 6 & 8 with display | 12 | 13.5 | 14.6 | 6.6 | - | 3 | 12 | 0.25 |
| DigiBOX and DigiBOX Pro 2, 4, 6 & 8 without display | 12 | 13.5 | 14.6 | 6.6 | 7 | 3 | 12 | 0.25 |