

**USDBPB30ND0**

**DIRIS DigiBOX B-30 480V power supply; No Display; RS485 communication**

**Strong points**

- Safe and reliable
- Plug & Play design
- Accurate

**General characteristics**

- Factory pre-wired avoiding wiring errors.
- Quick RJ12 lead connections to smart current sensors.
- Global accuracy class 0.5 (including current sensors) according to ANSI C12.20.
- Embedded web based software.
- Custom features available on request.
- Ideal for retrofits and new electrical installations.
- Unique single-point voltage sensing.

**Compliance with standards**

- cULus 508A
- ANSI C12.20
- IEC 61557-12
- UL 61010-1 CSA-C22.2 No. 61010-1 Guide PICQ File E257746

**Link to the reference**



<https://www.socomec.us/en-us/reference/USDBPB30ND0>

DIRIS DigiBOX B is an easy-to-install enclosed single-point submetering solution. It provides users with all they need for a complete submeter installation. Simply select the current sensors (CTs) from our wide plug-and-play selection to complete your system. With just two parts numbers, DIRIS DigiBOX B allows you to address a wide range of metering applications.

DigiBOX B is powered by our DIRIS B-30 power monitoring device that communicates Modbus RTU via RS485.

**General Product Characteristics**

Device type	Enclosed single-point submeter
<b>Technical Characteristics</b>	
Height [mm]	304.8
Width [mm]	254
Depth [mm]	152.4
ANSI C12.20	Class 0.2 Meter Accuracy
IEC 61557-12	Class 0.5 system accuracy (Meter + CTs)
Power Monitoring Device Inside	DIRIS B-30
USB Port Interface	1 Micro USB Type B - Configuration via Easy Config System and firmware upgrade via Product Upgrade Tool
Voltage Measure Type	AC
Communication ports	RS485
Communication protocols	Modbus RTU
Material	Polycarbonate
Rated frequency	45-65 Hz
<b>Technical Characteristics - Environmental</b>	
Enclosure Protection Degree	NEMA 4X
<b>Technical Characteristics - Measurement</b>	
Frequency rating	50/60 Hz
General measurements	Energy Metering: +/- kWh, +/- kvarh, kVAh  Multi-measurement: Amps, Volts, Frequency $\Sigma P$ , $\Sigma Q$ , $\Sigma S$ , $\Sigma PF$ P, Q, S, PF per phase Voltage unbalance Current unbalance
Power Quality measurements	Sag/Swell/Interruption detection; THD & Individual Harmonics; Unbalance
Frequency Range	45-65 Hz
Frequency Accuracy	Class 0.02
Voltage Measure Range Ph-N	50-300VAC
Voltage Measure Range Ph-Ph	87-520VAC
Voltage Measure Accuracy	Class 0.2
Voltage Transformer	Optional
Network Type	Configurable: 1P+N 2P 2P+N 3P 3P+N
Measure Level	Power Monitoring
Load Type	Configurable: 1P+N - 1CT 2P - 1CT 2P+N - 2CT 3P - 1CT 3P - 2CT 3P - 3CT 3P+N - 1CT 3P+N - 3CT

External Sensors Association	TE Solid Core; TR/iTR Split Core; TF Flexible Rogowski
Alarms	Under/Over Measurement Alarms
Number of Three-Phase Metering Points	1
Number of Single-Phase Metering Points	4
Active Energy Accuracy	Class 0.2 Meter accuracy ANSI C12.20; Class 0.5 system accuracy (Meter + CT) according to IEC 61557-12 from 2% up to 120% of the rated current (with TE/iTR/TF sensors)
<b>Technical Characteristics - Mechanical</b>	
Onboard Display	NO
<b>Logistics</b>	
Customs number	9030320000
Price unit	PC
<b>Product Details</b>	
Description	Enclosed single-point submeter; DIRIS DigiBOX B-30; 110-480VAC power supply; no display; 1 metering point/4 CT channels; Polycarbonate NEMA 4X enclosure; RS485 communication
Effective date	2022-06-15
Offer Life Cycle Code	40
Country of origin	US
Eco Contribution	yes
<b>Classification</b>	
UNSPSC	83101808
ETIM Class	EC002301
IGCC	6042