



MODBUS POWER METER

TAGS: PWS0306

DIRIS B-30 RS485-MODBUS-230VAC

48290000

Multifunction meter DIRIS B-30 RS485 MODBUS 230VAC

Strong Points

- ⊕ Plug & Play
- ⊕ Better than revenue grade
- ⊕ Multi-circuits
- ⊕ Versatile

Function

The DIRIS B is a DIN-rail mounted power monitoring device compatible with TE/TR/iTR/TF smart current sensors, suitable for new or existing electrical installations.

The 4 independent RJ12 current inputs allow the DIRIS B to monitor 1 three-phase circuit and use a dedicated current sensor for the neutral, or 4 single-phase loads.

The DIRIS B has 2 native digital input for additional versatility and includes Modbus RTU serial communication



to connect measurement data to external management systems.

Additional digital & analog input/output modules can extend the basic functional scope of the DIRIS B. An optional display can also be plugged to the meter for local visualization on panel doors.

CERTIFICATES AND DECLARATION

| | |
|----------------------------------|--|
| Conformity to standard #1 | UL 61010-1 Guide PICQ File E257746 |
| Conformity to standard #2 | CSA-C22.2 No. 61010-1 |
| Conformity to standard #3 | CEC Compliant |
| Conformity to standard #4 | ISO 14025 |
| Proposition 65 California | WARNING This product can expose you to chemicals including bisphenol A (BPA), which is known to the State of California to cause birth defects or reproductive harm. For more information go to : www.P65Warnings.ca.gov |

STANDARDS

| | |
|--------------------------------|--|
| Conformity to standards | <ul style="list-style-type: none">• IEC• UL |
|--------------------------------|--|

CERTIFICATES AND DECLARATION - SAFETY

| | |
|-------------------------|---|
| Safety standards | IEC/EN 61010-1 UL 61010-1 CAN/CSA C22.2 No. 61010-1 |
| UL file number | E257746 |

GENERAL PRODUCT CHARACTERISTICS

| | |
|--------------------|--|
| Device type | Multifunction Power metering and monitoring device (PMD) |
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|--------------------------------|-------------------------|
| Application | Analysis |
| Communication ports | RS485 |
| Communication protocols | Modbus RTU |
| Model | B-30 |
| Type | Power Monitoring Device |

TECHNICAL CHARACTERISTICS - ELECTRICAL

| | |
|------------------------------------|-------------------|
| Max voltage (Phase/neutral) | 50-300 VAC (Ph/N) |
|------------------------------------|-------------------|

TECHNICAL CHARACTERISTICS - ENVIRONMENTAL

| | |
|------------------------------------|--|
| Maximum operating altitude | 6560 feet / 2000 m |
| Operating temperature | +14 ... +158 °F / -10 ... +70 °C |
| PEP ecopassport - ISO 14025 | SOCO-2014-01-v1-fr, SOCO-2014-01-v1-en |
| Relative humidity | 131 °F / 55 °C / 97% relative humidity |
| Storage temperature | -13 ... +185 °F / -25 ... +85 °C |

TECHNICAL CHARACTERISTICS - MEASUREMENT

| | |
|---------------------------------|--|
| Accuracy class | Class 0.2 DIRIS B alone, Class 0.5 with TE, iTR or TF current sensors, Class 1 with TR current sensors |
| Current measurement type | AC |
| Frequency rating | 45 ... 65 Hz |

etering: +/- kWh, +/- kvarh, kVAh, Multi-tariff (8 max) ~~L6, L7, L8, L9, L10, L11, L12, L13, L14, L15, L16, L17, L18, L19, L20, L21, L22, L23, L24, L25, L26, L27, L28, L29, L30, L31, L32, L33, L34, L35, L36, L37, L38, L39, L40, L41, L42, L43, L44, L45, L46, L47, L48, L49, L50, L51, L52, L53, L54, L55, L56, L57, L58, L59, L60, L61, L62, L63, L64, L65, L66, L67, L68, L69, L70, L71, L72, L73, L74, L75, L76, L77, L78, L79, L80, L81, L82, L83, L84, L85, L86, L87, L88, L89, L90, L91, L92, L93, L94, L95, L96, L97, L98, L99, L100, L101, L102, L103, L104, L105, L106, L107, L108, L109, L110, L111, L112, L113, L114, L115, L116, L117, L118, L119, L120, L121, L122, L123, L124, L125, L126, L127, L128, L129, L130, L131, L132, L133, L134, L135, L136, L137, L138, L139, L140, L141, L142, L143, L144, L145, L146, L147, L148, L149, L150, L151, L152, L153, L154, L155, L156, L157, L158, L159, L160, L161, L162, L163, L164, L165, L166, L167, L168, L169, L170, L171, L172, L173, L174, L175, L176, L177, L178, 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| With firmware signature | Yes |
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|--|----|
| With logging of security events (security event log) | No |
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|---------------------------------------|----|
| With Role Based Access Control (RBAC) | No |
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|---|----|
| Web server with HTTPS transfer protocol | No |
|---|----|

ETIM - MECHANICAL CHARACTERISTICS

| | |
|------------|----|
| Width [mm] | 54 |
|------------|----|

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|-------------|----|
| Height [mm] | 90 |
|-------------|----|

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|------------|----|
| Depth [mm] | 65 |
|------------|----|

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|---------------------------------------|------|
| Degree of protection (IP), front side | IP20 |
|---------------------------------------|------|

ETIM - TECHNICAL FEATURES

| | |
|--------------|-----|
| Ampere meter | Yes |
|--------------|-----|

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|-------------------|-----|
| Blind power meter | Yes |
|-------------------|-----|

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|-----------------------------|----|
| With rotational speed meter | No |
|-----------------------------|----|

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|-----------------|-----|
| Frequency meter | Yes |
|-----------------|-----|

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|---------------|----|
| Pulse counter | No |
|---------------|----|

| | |
|-----------|-----|
| Voltmeter | Yes |
|-----------|-----|

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|------------------------------------|-----|
| Effective power measurement device | Yes |
|------------------------------------|-----|

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| Display | Optional |
|---------|----------|

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|----------------|-----|
| Remote display | Yes |
|----------------|-----|

LOGISTICS

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|----------|---------------|
| GTIN/EAN | 3596032773083 |
|----------|---------------|

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|----------------|------------|
| Customs number | 9030320000 |
|----------------|------------|

Weight of the packing unit [kg] 0.22

Length of the packing unit [m] 0.135

Width of the packing unit [m] 0.06

Depth of the packing unit [m] 0.08

PRODUCT DETAILS

Effective date 2013-11-12

Offer Life Cycle Code 40

Country of origin FR

CLASSIFICATION

UNSPSC 83101808

IGCC 6042