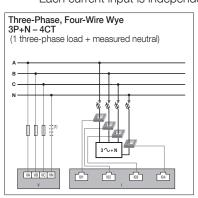
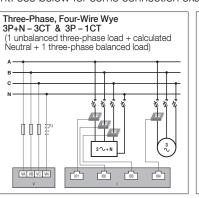
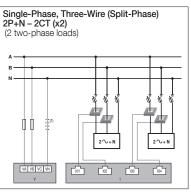
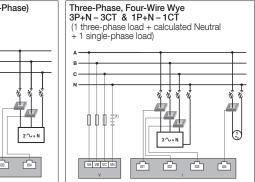
Line voltage and load connections for RJ12 smart sensors models

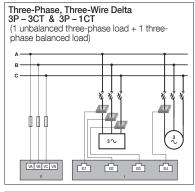
Each current input is independent: see below for some connection examples:

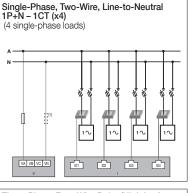


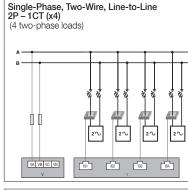


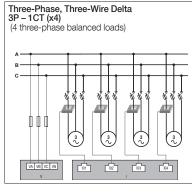




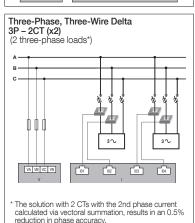


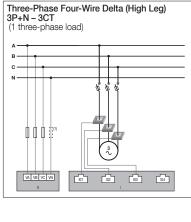


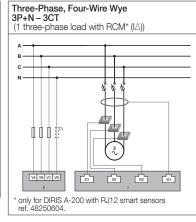


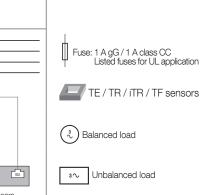


Listed fuses for UL application









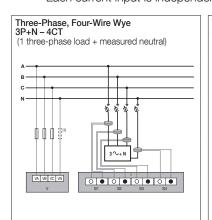


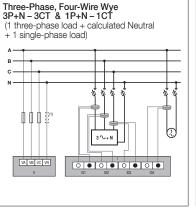
3∼ Unbalanced load

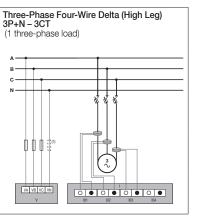
(1) For connection to IT system earthing, adapt the protection in accordance with the installation standards currently in force.

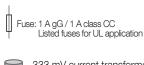
Line voltage and load connections for 333mV current transformers models

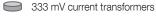
Each current input is independent: see below for some connection examples:











 $\begin{pmatrix} \mathring{_{\sim}} \end{pmatrix}$ Balanced load

3∼ Unbalanced load

(1) For connection to IT system earthing, adapt the protection in accordance with the installation standards currently in force.









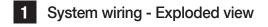
Full user manual and documents available online

www.socomec.us

Multi-function power and energy meter

DIRIS A-100 / A-200

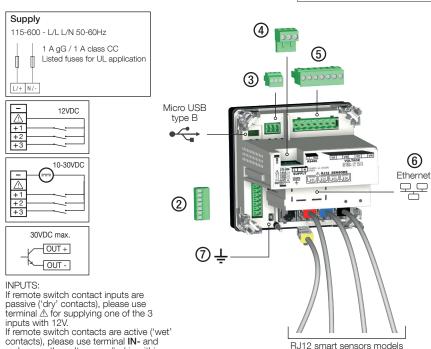
		Models			
	DIRIS A-100	DIRIS A-100	DIRIS A-200	DIRIS A-200	
	¥n352.7v lm 10 11610.9v F 50	**SOCOMEC**		**SOCOMEC***3527, 1.1003, 1.6109, 7.5999.	
RJ12 smart current sensors	•		•		
333mV current transformers		•		•	
RS485 Modbus RTU	•	•	•	•	
Ethernet Modbus TCP			•	•	
Webview software			•	•	
Part No.	48250600	48250601	48250604	48250605	



unshielded twisted pair (UTP) cables, stranded 24 AWG, 600V, -4 to +158°F (-20 to +70°C)

Do not put USB or RJ45 connectors in contact with hazardous voltage.

↑ Do not connect RJ12 sensor cables into an RJ45 connector to avoid any risk of mechanical damage to this connector.





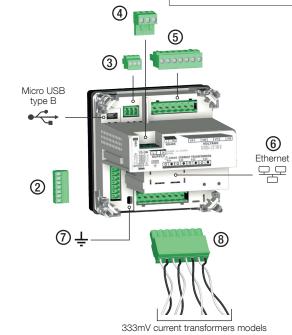
OUTPUT: optocoupler, apply max 30VDC X 3x INPUT 1 12 to 24 VDC +/- 20% - 27 mA max. - SELV 1x OUTPUT 1: 30 VDC max - 20 mA max. - SELV

3

50-60 Hz VA, VB, VC, and VN 50-600 V~ L/N CAT II 90-690 V~ L/L CAT III

_____; Screw Torques x = 6 - 7 mm 24~15 AWG 0.147 lbf·in 0,2 to 1,65 mm² x = 6 - 7 mm 24~15 AWG 0.147 lbf-in RS485 MODBUS RTU (0.2 Nm) 0,2 to 1,65 mm² 115-600 V~ L/L L/N (7 VA) 24~14 AWG 0,2 to 2 mm² x = 7 mm 24~13 AWG 0,2 to 2,6 mm² 0.486 lbf-in

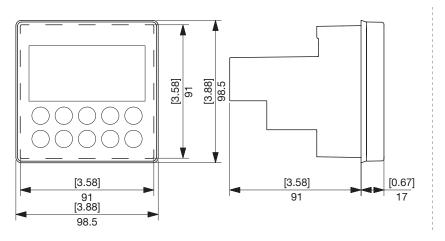
(0.66 Nm)

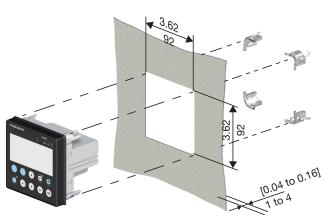


		*	Screw Torque
6	ETHERNET Modbus® TCP - BACnet® IP	-	-
7	≟ GROUND	24~13 AWG 0,2 to 2,6 mm ²	0.486 lbf·in (0.66 Nm)
8	333 mV current transformers	x = 7 mm 28~12 AWG 0,08 to 3,31 mm ²	0.486 lbf·in (0.66 Nm)
	0511/ 0 () 5 1 1 1/ 1		

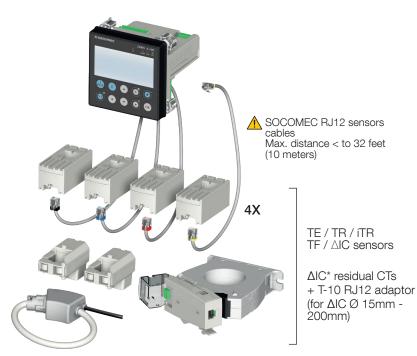
SELV: Safety Extra Low Voltage. (*) Use Copper conductors only.

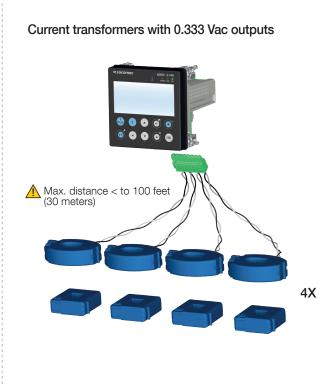
2 Dimensions [in]/mm and mounting





3 Sensors connection RJ12 smart current sensors





 $^{^*\}Delta$ IC residual current monitoring sensors are only compatible with the DIRIS A-200 with RJ12 sensors, model 48250604; only one Δ IC sensor per DIRIS A-200.

4 HMI



	FIXED	BLINKING	
ALARM MAINS (Red)	Ongoing alarm (measurement value, over / under range protection)	Ongoing system alarm (disconnected CT, V/I association, incorrect CT rating)	
COM (Orange)	N/A	Device is communicating	
ON (Green)	Product powered and operating normally	N/A	
Pulse LED	Ongoing RCM alarm (if pulse set to RCM, in which case this LED doesn't display consumptions pulses anymore)	Energy consumed or produced pulses, pulse weight: 0.1 Wh (default, configurable)	

5 Technical characteristics

Measurement characteristics				
Number of current inputs	4 current sensors or 3 c	4 current sensors or 3 current sensors + 1 residual current monitoring sensor		
Current sensor inputs	solid-core and ΔIP-R cir	RJ12 100mV smart sensors: solid-core TE, split-core TR and iTR, flexible TF current sensors, ΔIC circular solid-core and ΔIP-R circular split-core residual current transformers, T-10 adaptor. 333 mV current transformers: split-core ACTL-0750-xxx, ACTL-1250-xxx, solid-core TCL-B-xxx.		
Electrical / Voltage	Line frequency: 45 to 65 Hz Voltage measurement: 50-600VAC L/N CAT III, 90-690VAC L/L CAT III Power supply: 115-600VAC L/N L/L			
Communication characteristics				
Ethernet dual-port 10/100 Base-T - SELV	Modbus TCP (port 502)	, Modbus RTU over TCP (port 503), BACnet IP (UDP port 47808)		
RS485 2 to 3 half duplex wires – SELV	Modbus RTU 9600 to 1	Modbus RTU 9600 to 115200 bauds		
Micro USB Type B	Configuration via Easy C	Configuration via Easy Config System software and firmware upgrade via Product Upgrade Tool software		
Environmental characteristics				
Storage temperature	-40 +85°C / -40 to +	-40 +85°C / -40 to +185°F		
Operating temperature	-25 +70°C / -13 to +1	-25 +70°C / -13 to +158°F		
Humidity	5 to 95% RH non conde	5 to 95% RH non condensing (ANSI C12.1)		
Operating altitude	Up to 3000 m (9842 ft)	Up to 3000 m (9842 ft)		
Pollution degree	2	2		
Protection index	Housing: NEMA 250 Ty	Housing: NEMA 250 Type 1, Front side: NEMA 250 Type 3R*		
Overvoltage category	CAT III	CAT III		
Mechanical characteristics	,			
Location	Indoor	Indoor		
Vibration	30 350 Hz, 0.5g (ANS	30 350 Hz, 0.5g (ANSI C12.1)		
Shock	Half-sine pulse, 15 g, 11	Half-sine pulse, 15 g, 11ms (ANSI C12.1)		
Standards				
	ANSI C12.20	Class 0.2 for active energy, meter alone		
Measurement accuracy	CEC Revenue grade	CEC Revenue grade (<2% accuracy), listed on California Energy Commission's solar equipment list		
	IEC 61557-12	Class 0.2 for active energy, meter alone Global accuracy class from 2% to 120% of In (meter + sensors): - Class 0.5, in case of use with TE, iTR, TF, ACTL-1250, TCL-B sensors - Class 1, in case of use with TR or ACTL-0750 sensors		
	IEC 62053-21 -24	Class 0.2 active energy meter alone, class 1 reactive energy meter alone		
Safety		UL 61010-1 & UL 61010-2-030 IEC 61010-1 & IEC 61010-2-030 + CB Scheme		
EMC	FCC Part 15, Class A (R IEC 61326-1	FCC Part 15, Class A (Radiated and Conducted Emissions) IEC 61326-1		

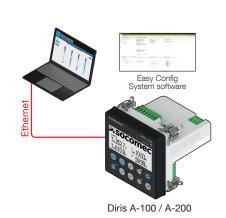
^{*} Front face only. The use of a silicone seal may be required to ensure sufficient sealing of the junction between DIRIS A-xxx display and the panel door.

6 Configuration with Easy Config System or display

USB connection between device and computer



Ethernet connection, either direct or through a LAN connection



Display

Wizard starts automatically at first power on or by long press of the «V F» button

