

Network analyzers

ADR-D 230 D22 series are a single-phase network analyzers for true r.m.s. measurements (TRMS). For direct connection up to 22.5 A or via CT for greater currents (Modbus model only).

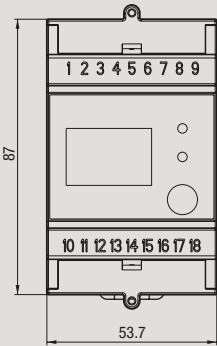


ADR-D 230 D22 Modbus
ADR-D 230 D22 Spot

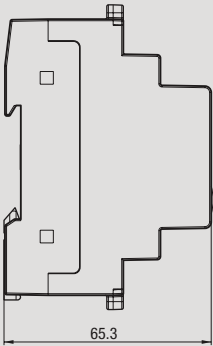
- 1 Load connection terminal block
- 2 Green LED indicating the connection to the mains
- 3 Red LED to indicate activity on the serial line (only for ADR-D 230 D22 Modbus)
- 4 Button for pages scrolling and basic settings
- 5 Terminals for serial connection RS-485 (only for ADR-D 230 D22 Modbus)
- 6 Backlit display to view the electrical measurements

DIMENSIONS (mm)

Front view



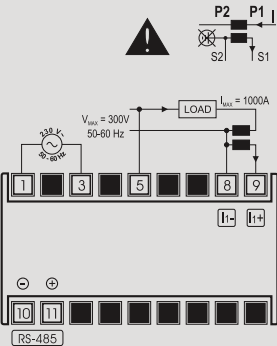
Side view



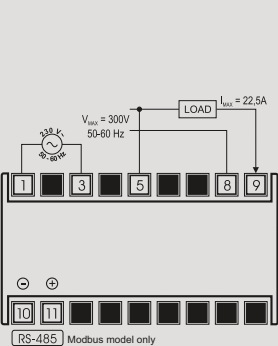
CONNECTION DIAGRAM

Diagram

ADR-D 230 D22 Modbus
(Connection via CT)



ADR-D 230 D22 Spot
ADR-D 230 D22 Modbus



ADR SINGLE-PHASE DIRECT CONNECTION
ADR SINGLE-PHASE WITH RS-485 OUTPUT

- Measurement and display of the measurements of a single-phase system: voltage, current, active power, power factor, frequency, active energy
- Separate power supply independent from the measurement
- Direct connection of the voltage cable
- View via 5+7 digits LCD display
- Zeroable partial energy meter
- Timed or disable backlighting
- RS-485 serial output with RTU serial protocol (Modbus model only)
- Overrange indication for voltages higher than 315 V
- Failure connection indication
- Selectable transformation ratios for the ADR-D 230 D22 Modbus model: 5/5, 10/5, 25/5, 50/5, 75/5, 100/5, 125/5, 150/5, 200/5, 250/5, 300/5, 400/5, 500/5, 600/5, 800/5, 1000/5



TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

Power supply	V AC	230 (-15 ÷ +10%)
Frequency	Hz	50 / 60
Absorption	VA	4
Maximum voltage (full scale)	V	300
Voltage resolution	V	0.1
Voltage precision		± 0.5% of the full scale ± 1 digit
Direct connection maximum current	A	22.5
Current resolution (f.s. 22.5 A)	A	0.01
Direct connection current precision		± 3% ± 1 digit (f.s. 22.5 A)
Power precision	kW	± 1% ± 1 digit (f.s. 100 or 1000)

Power factor precision	± 1% ± 1 digit
Frequency precision	Hz ± 0.1
Active energy precision	Class 1
Operating temperature	°C -10 ÷ +45
Storage temperature	°C -20 ÷ +60
Installation	DIN-rail (omega bar)
Container	3 DIN modules
Degree of protection	IP20 / 51 on the front
Terminal 1-3-5	2.5 mm² terminal block
Terminal 8-9 (current)	4.0 mm² terminal block
Maximum current	22.5 A / 1000/5 A on CT
Terminal 10-11 (serial output)	2.5 mm² terminal block
Humidity	20 ÷ 90% RH non condensing

Code	Model	Description
VE009700	ADR-D 230 D22 Modbus	Single-phase network analyzer with RS-485 serial and direct connection via CT
VE008900	ADR-D 230 D22 Spot	Single-phase network analyzer 22.5 A direct connection

REFERENCE STANDARDS

Compliance with Community Directives: 2006/95/EC (Low Voltage) and 2004/108/EC (E.M.C.) is declared with reference to the following standards: • Safety: EN 61010-1 • E.M. Compatibility: EN 61000-6-2 / EN 61000-6-4