

Network analyzer

ADR-D 400 D90

The ADR-D 400 D90 instrument is a three-phase systems analyzer for direct connection up to 90 A for true r.m.s. measurements (TRMS). The RS-485 serial output shows the data on a PC via the optional dedicated software ADR view.



- 1 Through holes for direct connection
- 2 Instrument programming keys
- 3 Backlit display to view the electric measurements



ADR THREE-PHASE DIRECT CONNECTION

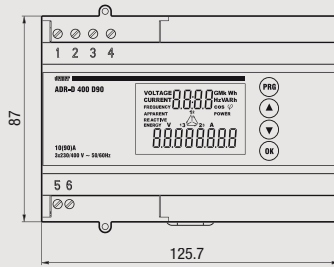
- Measurement and display of the measurements on a three-phase system: voltage, current, active, reactive and apparent power, power factor, frequency, active and reactive energy
- Separate power supply independent from the measurement
- Direct connection of the voltage cable
- Direct connection of the current cable (diam. 12.5 mm - max section of the cable 25 mm²)
- LCD display
- Zeroable active and reactive energy meter
- Timed or disable backlighting
- RS-485 serial output with Modbus RTU communication protocol to display and file on PC (ADR-view)
- Usable in three-phase systems with neutral (with balanced and unbalanced load)
- Usable in three-phase systems without neutral (with balanced and symmetrical load only)
- Over current and overvoltage indication
- Failure connection indication

Code	Model	Description
VE045100	ADR-D 400 D90	Three-phase network analyzer 90 A direct connection

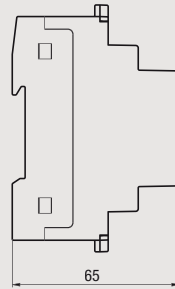
DIMENSIONS (mm)

CONNECTION DIAGRAM

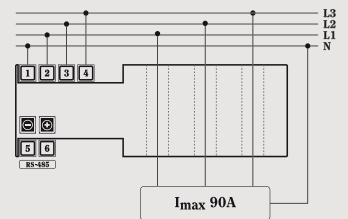
Front view



Side view



Diagram



MEASUREMENT AND CONTROL

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

Power supply	V AC	400 (-15 ÷ +10%)
Frequency	Hz	50 / 60
Measurement power consumption	VA	- voltage circuits: <2.5 - current circuits: <2.5 - power supply: <4
Amperometric inputs	A	$I_n = 10$; $I_{max} = 90$
Voltmetric inputs		$V_{max} = 440$ V (phase-phase) $V_{max} = 3 \times 253$ V (phase-neutral)
Voltage precision		$\pm 0.5\%$ f.s. ± 1 digit (f.s. 253 V)
Current precision		$\pm 0.5\%$ of f.s. ± 1 digit (f.s. 90 A)
Active power precision		$\pm 1\%$ of f.s. ± 1 digit (f.s. 100 W - 1 kW - 10 kW - 100 kW)

Reactive power precision		$\pm 1\%$ of f.s. ± 1 digit (f.s. 100 W - 1 kW - 10 kW - 100 kW)
Power factor precision		$\pm 1\%$, ± 1 digit
Frequency precision		± 0.1 Hz ± 1 digit
Active energy precision		Class 1
Reactive energy precision		Class 3
Operating temperature	°C	-10 ÷ +45
Storage temperature	°C	-10 ÷ +60
Display		LCD
Container		7 DIN modules
Degree of protection		IP20 / 51 on the front
Voltmetric input terminal		2.5 mm ²
Serial output RS-485 terminal		2.5 mm ²
Humidity		10 ÷ 90% RH noncondensing

REFERENCE STANDARDS

Compliance with Community Directives: 73/23/CEE mod. from 93/68/CEE (Low Voltage) 89/336/CEE mod. from 92/31/CEE and 93/68/CEE (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