

OM 371PWR



- Network analyser V/A/W(P,Q,S)/Hz/cos φ
- 4 digit programmable projection
- 0...450 V/0...5 A
- Dual comparator
- Size of DIN 96 x 48 mm
- Power supply 230 VAC

Options

Data output • Universal analog output • Power supply 24 VAC, 110 VAC, 10...30 VDC

Description

The OM 371PWR model is a 4 digit universal panel programmable network analyser.

The instrument is based on an 8-bit controller with a converter, that secures high accuracy, stability and easy operation of the instrument.

Standard functions

Programmable display projection

Measuring modes voltage (V_{RMS})

current (A_{RMS}) real power (W) frequency (Hz)

and with calculation reactive power (Q)

apparent power (S) power factor ($\cos \varphi$)

Setting manual, optional projection on the display may be

set for maximum value of the input signal in "CM", e.g.: 0...250 V/0...5 and $\Rightarrow 0...1.500 \text{ MW}$

Projection -999...999

Digital filter

Floating average from 2...10 measurements
Exponen. average from 2...255 measurements
n-th value from 2...255 measurements

Radius of insensitiv. band of suppressed change of measured value

Mathematic functions

Min/max. value registration of min./max. value reached during

measurements

Round up/down setting the projection step for display

External control

Hold display/instrument blocking
Lock control keys blocking

Output

Limits 2 relays with switching contact,

The limits have both adjustable hysteresis and optional delay of the switch-on. Reaching the limits is signalled by LED and at the same time by the

switch-on of the relevant relay.

Operation

The instrument is set and controlled by five control keys located on the front panel. All programmable settings of the instrument are realised in two adjusting modes.

Configuration menu (hereinafter referred to as CM) is protected by an

optional number code and contains complete

instrument setting

User menu may contain arbitrary programming settings defined

in "CM" with another selective restriction

(see, change)

All programmable parameters are stored in the EEPROM memory (they hold even after the instrument is switched off). The measured units may be projected on the display.

Options

Data outputs are for their rate and accuracy suitable for transmission of the measured data for further projection or directly into the control systems. We offer an isolated RS232 and RS485 with the ASCII protocol.

Analog outputs will find their place in applications where further evaluating or processing of measured data is required in external devices. We offer universal analog output with the option of selection of the type of output - voltage/current. The value of analog output corresponds with the displayed data and its type and range are selectable in CM.



Technical data

MEASURING RANGE

Active power output: ±0...9999 W 0...450 V Voltage input: Current input: 0...5 A 40...400 Hz Frequency range:

With converter transformer or shunt, optional power output may be measured up to max.projection 9999.

PROJECTION

Display: -999...9999, red or green 14-segment LED, digit height 14 mm

Decimal point: adjustable - in Configuration menu Brightness: adjustable - in Configuration/User menu

INSTRUMENT ACCURACY

Tempco:

60 ppm/°C ±0,2 % of range + 1 digit Accuracy: 0,6 - 1,2 - 2,5 - 5 measurements/s Rute.

10x (t ≤ 30 ms) - does not apply for 450 V and 5 A, 2x (long-term) Overload capacity:

Watch-dog: reset after 2 s

Hold/Lock (upon contact), Round up/down **Function:**

Digital filter - adjustable in Configuration menu

Calibration: at 25°C and 40 % r.h.

COMPARATOR

digital, adjustable in programming mode, contact switch-on < 30 ms

Limit 1 and 2 -999...9999 0...999 Hysteresis: 0...99,9 s Delay:

2 relays with switch-on (switch-off) contact (250 VAC/30 VDC, 3 A) $\,$ Outputs:

- the relay function is adjustable in Configuration menu upon request SSR (250 VAC, 1 A) or open collector may be fitted

DATA OUTPUTS

Data format: rate 600...115 200 Baud

8 bit + no parity + 1 stop bit (ASCII)

RS 232

RS 485 isolated, addressing (max. 31 instruments)

ANALOG OUTPUTS

isolated, programmable with resolution max. 10 000 points, analog output corre-Type:

sponds with the displayed data, output type and range are selectable in CM

Non-linearity: 0,2 % of range 100 ppm/°C Tempco:

response to change of value < 40 ms

Voltage: 0...2 V/5 V/10 V

Current: 0...5 mA/0/4...20 mA (compensation of conduct up to 600 0hm)

POWER SUPPLY

24; 110; 230 VAC, 50/60 Hz, ±10 %, 5 VA 10...30 VDC/max. 300 mA, (24 VDC/150 mA), isolated - power supply is protected by a fuse inside the instrument

MECHANIC PROPERTIES

Noryl GFN2 SE1, incombustible UL 94 V-I Material.

96 x 48 x 120 mm Dimensions: 90.5 x 45 mm Panel cut:

OPERATING CONDITIONS

connector terminal board, conductor section up to 2,5 mm² Connection:

Stabilization period: within 15 minutes after switch-on

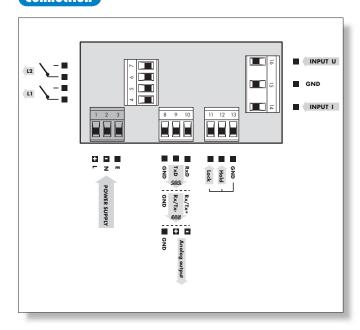
Working temperature: 0°...60°C Storage temperature: -10°...85°C IP65 (front panel only) Covering: safety class I Construction: Electrical safety: EN 61010-1, A2 Overvoltage category: for pollution degree II

III. - instrument power supply (300 V)

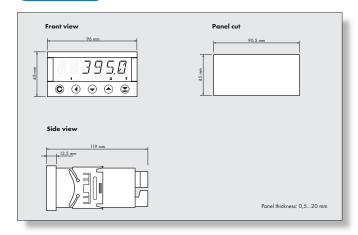
II. - input, output (300 V)

EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection



Dimensions



Order code

