

OMD 201



OMD 201DC	DC VOLTMETER AND AMMETER
OMD 201PWR	AC NETWORK ANALYSER
OMD 201PM	PROCESS MONITOR
OMD 201OHM	OHMMETER
OMD 201RTD	THERMOMETER FOR Pt/Ni
OMD 201T/C	THERMOMETER FOR THERMOCOUPLES
OMD 201DU	DISPLAY UNIT FOR LINEAR POTENTIOMETERS
OMD 201UQC	UNIVERSAL COUNTER
OMD 201RS	DATA DISPLAY

Description

The OMD 201 model series are large programmable displays, which are produced in many designs.

The instrument is based on an 8-bit processor and a precise A/D converter, which secures high accuracy, stability and easy operation of the instrument. Displays are designed for indoor and outdoor use with IP64 cover.

Displays are suitable for projection of measured data in production lines and operations with legibility up to 80 m.

Holder for wall mounting applications may be supplied on request.

Operation

The instrument is set and controlled by four control keys located on a separate keyboard (5 m cable) or by remote IR control. All programmable settings of the instrument are realised in two adjusting regimes.

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 settings are stored in the EEPROM memory (they hold even after the instrument is switched off).

The measured units may be projected on the 6 digit display.

Options

Excitation is suitable for feeding of sensors and transmitters. It has a galvanic isolation with continuously adjustable value in the range of 5...24 VDC.

Comparators are assigned to monitor two limit values with relay output. The limits have adjustable hysteresis within the full range of the display as well as selectable delay of the switch-on in the range of 0...99,9 s. Reaching the preset limits is signalled by LED and simultaneously by the switch-on of the relevant relay.

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 evaluation 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.

- 4/6-digit programmable projection
- Three-color LED, digit height 57; 100; 125 mm
- Digital filter, Tare
- Power supply 230 VAC

Options

- Dual comparator • Excitation • Data output • Analog output
- Power supply: 24/110 VAC, 10...30 VDC

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Standard functions

PROGRAMMABLE PROJECTION

Setting: manual, in „CM“ optional projection on the display may be set for values of the input signal

Setting (UQC): measuring mode 2x counter (UP/DW, IRC)/2x frequency/timer/clock with adjustable calibration coefficient, time base and projection

Projection: -999...9999/-99999...999999, user-adjustable display color also with measuring units (red-green-orange)

COMPENSATION

of conduct (RTD): in „CM“ it is possible to perform compensation for 2-wire connection

of conduct in probe (RTD): internal connection (conduct resistance in measuring head)

of CJC (T/C): manual or automatic, in „CM“ it is possible to perform selection of the type of thermocouple and compensation of cold junctions, which is adjustable or automatic (temperature at the input brackets)

DIGITAL FILTERS

Radius of insensitiveness: band of suppressed change of measured value

Exponen. average (UQC): from 2...100 measurements

n-th value (UQC): from 2...100 measurements

Input filter (UQC): lets through input signal up to 10...2000 Hz

FUNCTIONS

Preset (UQC): initial non-zero value, which is always read after resetting the instrument to zero

Summation (UQC): registration of the number upon shift operation

Pre-division constant (UQC): 1/10/60/100/1 000/3 600

Rounding: setting the projection step for display

Tare: resetting display upon non-zero input signal

EXTERNAL CONTROL

Hold: display/instrument blocking

Lock: control keys blocking

Instrument setting: 4-key keyboard with 5 m cable or remote IR control

