TARGEDISPANS

OMD 201RS

2003 - 3 -



- 4/6 digit programmable projection
- Digit height 57; 100; 125 mm
- RS 232 / RS 485
- Secondary display for OM instruments
- Power supply 230 VAC

Options

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

Description

The OMD 201RS model is a 4 or 6 digit large display of data from serial lines RS 232 and RS 485. Communication runs via protocol ASCII or DIN Messbus.

The instrument is based on an 8-bit processor with very precise A/D converter, that secures high accuracy, stability and easy operation of the instrument. Given the IP64 cover the display is construed also for outdoor application. Connection is executed through cable bushings and also the connector for control keyboard has the necessary protection.

A holder for wall mounting applications may be supplied upon request to large display.

Standard functions

Programmable display projection

Input RS 232 or RS 485 Projection ±9999/±999999

External control

Instrument setting 4 keybutton keyboard with 5 meter cable

Operation

The instrument is set and controlled by four control keys located on an individual box, which is connected with a 5 m cable. 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 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 6-digit display.

Options

Comparators are assigned to monitor one or 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.

Excitation is suitable for feeding of sensors and transmitters. It is isolated, with continuously adjustable value in the range of 2...24 VDC.

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

INPUT

Protocols: RS 232/485

ASCII

DIN Messhus

rate 150...115 200 Baud Data format:

7 bit + even parity + 1 stop bit (DIN Messbus) 8 bit + no parity + 1 stop bit (ASCII) secondary dispaly for OM instruments

PROJECTION

Display:

4 (100/125 mm) or 6 digit (57/100/125 mm) red/green/orange 7-segment LED, digit height 57, 100 or 125 mm

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

Watch-dog: reset after 1,2 s

external keyboard with 5 m cable Setting: Calibration: at 25°C and 40 % r.h.

COMPARATOR

Type: digital, adjustable in programming mode, contact switch-on < 30 ms Limit 1 and 2 999999, the limits setting depends on the used input section

Hysteresis: Delay: 0...99,9 s

Outputs: 2 relays with switching contact (250 VAC/50 VDC, 3 A)

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: 100 ppm/°C Tempco:

response to change of value < 40 ms

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

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

EXCITATION

Adjustable: 2....24 VDC/50 mA, isolated

POWER SUPPLY

24; 110; 230 VAC, 50/60 Hz, ±10 %, 15 VA 10...30 VDC/max. 2 A, (24 VDC/0,7 A), isolated - power supply is protected by a fuse inside the instrument

MECHANIC PROPERTIES

anodized aluminium, black Material: Dimensions: see dimensions see dimensions Panel cut:

OPERATING CONDITIONS

Connection: cable bushings, terminal board inside, conductor section up to 2,5 mm²

Stabilization period: within 15 minutes after switch-on

Working temperature: 0°...60°C , (storage temperature: -10°...85°C) IP64 Covering:

Construction: safety class I Electrical safety: EN 61010-1, A2 Overvoltage category: for pollution degree II

III. - instrument power supply, relay output (300 V)

II. - input, output (300 V)

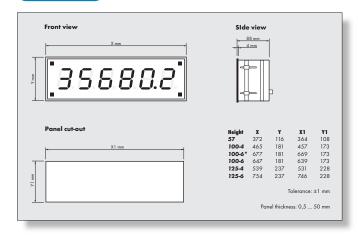
EMC: EN 61000-3-2+A12; EN 61000-4-2, 3, 4, 5, 8, 11; EN 550222, A1, A2

Connection

To maintain the IP65 covering the display connection is realised through bushings directly on the terminal board inside the instrument.

The cable from control keyboard ends by a connector with IP64 covering.

Dimensions



Order code

