OML 343DC



DC V-A METER

3,5-DIGIT PROGRAMMABLE PROJECTION

RANGE: ±1 A/±5 A

±120 V/±240 V

- DIGITAL FILTERS, LINEARIZATION, TARE
- SIZE OF DIN 96 x 48 MM
- POWER SUPPLY 10...30 VDC/24 VAC

Option Comparator



OML 343DC



Type OML 343DC is an inexpensive programmable 3,5-digit panel direct current VA-meter designed for simple applications with an instrument box depth of only 30 mm.

The instrument is based on a single-chip microcontroller with an A/D converter, which ensures good accuracy, stability and easy operation of the instrument.

OML 343DC

DC VOLTMETER AND AMMETER

OPERATION

The instrument is set and controlled by five buttons accessible from the rear. All programmable settings of the instrument may be performed in three adjusting

LIGHT MENU is protected by optional number code and contains solely items necessary for instrument setting.

PROFI MENU is protected by optional number code and contains complete

USER MENU may contain arbitrary items from the programming menu (LIGHT/ PROFI), which determine the right (see, change). Access w/o password.

Standard equipment is the OM Link interface, which together with operation program enables modification and filing of all instrument settings as well as performing firmware updates (with OML cable). The program is also designed for visualization and filing of measured values from more instruments.

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

OPTION

COMPARATOR is 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.

STANDARD FUNCTIONS

PROGRAMMABLE PROJECTION

Selection: measuring range

Setting: manual, optional projection on the display may be set in menu for both limit values of the input signal, e.g. input 0...1,00 A > 0...100,0

Projection: ±1999

FUNCTIONS

Linearization: through linear interpolation in 25 points (solely via OM Link) Tare: designed to reset display upon non-zero input signal

DIGITAL FILTERS

Exponential average: from 2...100 measurements Rounding: setting the projection step for display

EXTERNAL CONTROL

Hold: display/instrument blocking

Tare: tare activation



TECHNICAL DATA

INPUT

optional in configuration menu ±1 A < 12 mV ±5 A < 60 mV nc. Range Input 5 Input 5 +120 V 10 MO Input 1 ±240 V Input 1

1 input, on contact External input

The following functions can be assigned:

OFF input off display stop TAR tare activation

PROJECTION

Display: ±1999, single color 7-segment LED Digit height: 14 mm

Display color: red or green

Decimal point: adjustable - in menu

Brightness: adjustable or automatically controllable

PROJECTION

Display: ±1999, red or green 7-segment LED, height 14 mm Decimal point: adjustable - in menu Brightness: adjustable or automatically controllable

INSTRUMENT ACCURACY

TK: 50 ppm/°C

Accuracy: ±0,15 % of range + 1 digit

Rate: 0.5...20 measur/s Overload capacity: 2x; 10x (t < 30 ms) - not for > 240 V and 5 A Watch-dog: reset after 500 ms

Digital filters: exponential average, rounding Functions: Tare

OM Link: Company communication interface for operation, setting and update of instruments.

Calibration: at 25°C and 40 % r.h.

COMPARATOR

Type: digital, menu adjustable, contact switch-on < 50 ms Hysteresis mode: switching limit, hysteresis band "Lim $\pm 1/2$ Hys." and time (±99,9 s) determining the switching delay Output: 1x Form A relay (250 VAC/30 VDC, 3 A), 1x open collector (30 VDC/100 mA)

POWER SUPPLY

Range: 10...30 VDC/24 VAC, ±10 %, PF \geq 0,4, $I_{\rm STP}^{<}$ 45 A/1,1 ms, isolated Consumption: < 1,8 W/1,9 VA

MECHANIC PROPERTIES

Panel cutout: 92 x 44 mm (w x h)

OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,5 mm² Stabilization period: within 15 minutes after switch-on

Vorking temperature: -20°...66°C
Storage temperature: -20°...65°C
Protection: IP65 (front panel only with a gasket)
El. safety: EN 61010-1, A2

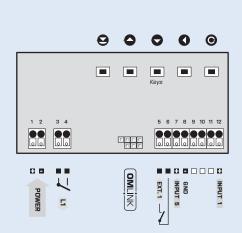
Dielectric strength: 2,5 kVAC per 1 min test between supply and input 4 kVAC per 1 min test between input and relay output Insulation resistance; for pollution degree II, measuring cat. III

power supply > 300 V (PI) input, output > 300 V (DI)

EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

CONNECTION



URDER CODE					
OML 343DC	-				-
Comparator	no	0			
	1x relay (Form A)	1			
	1x open collector	2			
Display color	red		1		
	green		2		
Gasket	no			0	
Silicone gasket between instrument and panel	yes			1	
Specification customized ve	rsion, do not fill in				00

Basic configuration of the instrument is indicated in bold.