OML 343AC



AC V-A METER

- 3,5-digit programmable projection
- Range: 0...1 A/5 A
 - 0...60 mV/300 mV
 - 0...24 V/50 V/120 V/250 V
- Digital filters, Linearization, Tare
- Size of DIN 96 x 48 mm
- Power supply 10...30 VDC/24 VAC
- Option Comparator

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 modes:

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 instrument setting.

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.

OML 343AC



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

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

OML 343AC AC VOLTMETER AND AMMETER

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...60 mV > 0...100,0 Projection: ±1999

FUNCTIONS

Linearization: non-linear signals can be linearized by the means of a linearization table (up to 25 points)

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 Lock: control keys blocking Tare: tare activation

TECHNICAL DATA

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Number of inputs		1			
AC	Range	optional in configuration menu			
		01 A 05 A	> 30 mV > 150 mV	Input 5 Input 5	
		060 mV 0300 mV	1,2 kΩ 1,2 kΩ	Input 4 Input 4	
		024 V 050 V 0120 V 0250 V	500 kΩ 1 MΩ 500 kΩ 1 MΩ	Input 2 Input 1 Input 2 Input 1	
	Input frequency	0400 Hz for amplitude u	ip to 8 V		
External input		1 input, on contact			
		OFF inpu HLD. disp	functions can be as ut off alay stop activation	signed:	

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PROJECTION Display: 01999, single color 7-segment LED Digit height: 14 mm Display color: red or green Decimal point: adjustable - in menu Brightness: adjustable or automatically controllable INTUMENT ACCURACY TC: 50 ppm/CC Accuracy: 20.3% of range + 1 digit Rate: 0.5/1.2/2.5/5 measurement/s Overload capacity: 2x; 10x (t < 30 ms) - not for > 250 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. OMERATOR Type: digital, menu adjustable, contact switch-on < 50 ms Hysteresis mode: switching limit, hysteresis band (Lim and ±1/2 Hys.) and time (±99, 9:) determining the switching delay Output: 1x Form A relay (250 VAC/30 VDC, 3 A), tx open collector (30 VDC/100 mA) POWER SUPPLY Range: 1030 VDC/24 VAC, ±10 %, PF±0.4, I _{stp} < 45 A/l.1 ms, isolated Consumption: <18 W/l,9 VA		
TC: 50 ppm/°C Accuracy: ±0.3% of range + 1 digit Rate: 0.5/1/2/2.5/5 measurement/s Overload capacity: 2x; 10x (t < 30 ms) - not for > 250 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 and ±1/2 Hys.) and time (±99. s) determining the switching delay Output: Ix Form A relay (250 VAC/30 VDC, 3 A), Ix open collector (30 VDC/100 mA) POWER SUPPLY Range: 1030 VDC/24 VAC, ±10 %, PF±0.4, I _{stp} < 45 A/1.1 ms, isolated Consumption: < 18 W/1.9 VA	Display: 01999, single color 7-segment LED Digit height: 14 mm Display color: red or green Decimal point: adjustable - in menu	
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OPERATING CONDITIONS

Connection: connector terminal blocks, section < 1,5 mm² Stabilization period: within 5 minutes after switch-on Vorking temperature: -20°...60°C Storage temperature: -20°...65°C Protection: IP65 (front panel only with a gasket) El. safety: EN 61010-1, A2 EL safety: EN 01010-1, AZ 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

CONNECTION



ORDER CODE **OML 343AC** -[Comparator 0 no 1x relay (Form A) 1 1x open collector 2 Display color 1 red 2 green

Gasket		no	0		
Silicone gasket between	n instrument and panel	yes	yes 1		
Specification	customized version,	do not fill in		00	

Basic configuration of the instrument is indicated in bold.

PI - Primary insulation, DI - Double insulation

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