

■ Digital Panel Meter Series 355LC/356LC

Characteristics

- LED-Display, 31/2 decades, 16 mm
- Display range ±1999 resp. 0 .. 1999
- DIN Standard Case 96 x 48 mm
- · Connection with screw terminal

General

The digital panel meters of serie 355LC/356LC are LowCost instruments for industrial area. Depents of the type of pamel meter the display range is ± 1999 resp. 0 to 1999. The overflow resp. underflow will be indicated at the display "1999".

Deliverable types

- DC voltage panel meter type U 355LC min. 60 mV .. max. 400 V
- DC current panel meter type I 356LC min. 1 mA .. max. 1 A
- AC voltage panel meter type UW 355LC TRMS min. 60 mV .. max. 400 V
- AC current panel meter Type IW 356LC TRMS min. 1 mA .. max. 1 A

The input range is specified at order (f.e. 0 - 20 mA = 0 - 1600).

Higher current input ranges are realisable with an extern shunt or current transformer.

Construction

The panel meters have a 3½ decades display. The numeral are 16 mm high and has a very luminous intensity, so that the display is still very good legible even from a distance of 10 m. The colour of the display is red (optional green). To improve the contrast the panel meters have a red (optional green) filter plate on the display.

The panel meters are placed in a high-impact DIN standard case 96 x 48 x 107 mm. To connect the input and output signals there are screw terminals ath the rear. The front frame colour is black. (Optional grey RAL 7037, grey RAL 7032 or grey RAL 7035). The installation depth inclusive the srew terminals is 118 mm. To mount the instrument in the panel a clamping frame is available.



Decimal point

If a decimal point is used please specify it at the order (f.e. 0 - 20 mA = 0 - 19.99).

Power supply

The panel meters contains an integrated power supply. The power supply is interpreted for 230 V AC. Optional the panel meters are deliverable for the power supply 115 V AC, 24 V AC or 18 .. 36 V DC. The power supply is isolated from the further electronic.

Adjustment

The panel meters are precalibrated. When deliverd no adjustment is necessary. If a new adjustement is required ther are two potentiometers P1 and P2 at the rear. It is possible to vary the input offset in the range \pm 20 Digit by P1 and the scale factor in the range \pm 5% of full scale by P2.

Service Instruction

At power supply 230 V AC resp. 115 V AC or 24 V AC The power must be connected to screw terminal 7 (L1) and screw terminal 8 (N), ground to screw terminal 9 (PE). At power supply 18 to 36 V DC the power supply must be connected to screw terminal 8 (+) and 7 (-). Attention must be paid that the power supply will agree with the voltage noticed at the name plate.

The input signal must be connected to screw terminal 5 (U_E resp. I_E) and screw terminal 6 (Analog-Gnd).

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Digital Panel Meter

Electrical Data

Input range

Voltage DC/AC (Sinus) Input resistance

Current DC/AC (Sinus)

Input voltage

Accuracy U 355LC / I 356LC

UW 355LC / IW 356LC

Conversion rate Temperature coefficient

Offset adjustment Full scal adjustment Decimal point

Power supply voltage AC optional

Isolation voltage Power supply voltage DC Isolation voltage

Power consumption

min. 60 mV / max. 400 V

> 1 MΩ

min. 1 mA / max. 1 A

max. 200 mV

0,1 % of range ± 1 Digit 0,5 % f.s. ± 1 Digit

approx. 2-3 measurings per sec

< 30 ppm/K

P1, approx. ± 20 Digit P2, approx. ± 5% v. Mb.

at factory

230 V, +6%/-10%, 50/60 Hz 115 V, +6%/-10%, 50/60 Hz 24 V, +6%/-10%, 50/60 Hz

2,5 kV / 1 min 18 .. 36 V DC 500 V / 1 min

AC 4,6 VA, DC 70 mA

Mechanical Data

Display

31/2 decades, 16 mm, red decimal point at factory -sign at negative values

Case

Dimension (B x H x T) Depth

Mounting

Weight Connections

swicth board mounting DIN 43700

96 x 48 x 107 mm

118 mm incl. screw terminal switch board mounting

approx 300 q screw terminal

Environment conditions

Operating temperature

Storage temperature Humidity

Protection Front protection Field of application 0 .. 50 °C

-20 .. 70 °C < 80 %, not-condensing

protective class II

IP 40 class 2

overvoltage protection II

CE in conform with 89/336/EWG

NSR 73/23/EWG

Ordering Information

	-			_	_		
xx 355LC	0						
xx 356LC-	0						
					Hous	sing	
					0	Switch board	
				Fror	ront frame colour		
				0	black		
				1	grey	RAL 7037	
				2	grey	RAL 7032	
				3	grey	RAL 7035	
			Fron	t design			
			0	ERM	1A-Me	ter Logo	
			1	No L	_ogo		
	Power supply						
		0	230 \	30 V/AC			
		1	115 \	V/AC			
		2	24 V	V/AC 36 V/DC, isolated			
		3	18				
	Display colour						
	C	red					
	_1	gree	green				
	Reserve)					

Unit overprint

Please specify in clear text at order!

Screw termianl indication

9 screw terminal screw terminal

8 power supply N

ground PE

or power supply (+) screw terminal

7 power supply L1 or power supply (-)

screw terminal 6 analog-GND

screw terminal signal input UF resp. IF

5,0

Dimensions amd Mounting

