

Digital Panel Meters 47L Series

- 1/8 DIN size
- Bright and colorful display: red, orange, green, bluegreen, blue, white
- LED brightness adjustable by five levels
- IP66 front panel
- Separable terminal block



Red



Blue



Orange



Bluegreen



White



Green



M-System's 47L Series is a 1/8 DIN size (96 x 48 mm), 4 or 4 1/2 digit process indicators. The high quality panel meters are designed for accurate measurement and display of temperature, pressure, level, flow, frequency, DC and AC voltage/current and revolutions per minute.

BRIGHT, CLEAR AND COLORFUL DISPLAYS

High-brightness, 16-mm high LEDs are used to create a display that is bright, clear, and sharp. The display brightness can easily be set by the user to any of five levels by means of the front control buttons to match the environment in which the meter is being used. Six display colors are selectable including red, green, orange, blue-green, blue, and white, making it easy to customize the 47L Series meters for use in unique applications.

IP66 FRONT COVER

The front panels of 47L Series meters provide IP66-level protection so that they can be used with peace of mind near water and in environments where they might be exposed to dust or splashing water.

EASY MAINTENANCE

Thanks to the two-piece detachable terminal block design allowing the terminal blocks to be removed from the device, there is no need to disconnect numerous cables from the terminal blocks when removing the device from the panel for inspection or maintenance purposes. Vertically staggered terminal blocks help keep connected cables from becoming tangled. Terminal block cover reduces the danger of electric shock so that personnel can work safely inside panels.



SELECTION OF OPTIONS

Two SPDT relay or four N.O. relay outputs are available for alarm trip. An alarm trip indicator for each setpoint turns on when an alarm is triggered.

DC transmitter output is also optional.

Universal power input of 100-240 Vac or 24 Vdc is selectable for all models. 2000 Vac isolation is maintained between input, relay output, transmitter output and power input.

For M-System product information and downloadable data sheets, visit On-Line Signal Conditioners Data Library at: <http://www.m-system.co.jp/mssenglish/index.htm>.

MODEL SELECTIONS

FUNCTION	LED	MODEL
DC input, indication only	4 1/2 digits	47LYV
DC input	4 1/2 digits	47LV
Thermocouple input	4 digits	47LT
RTD input	4 digits	47LR
Potentiometer input	4 digits	47LM
Strain gauge input (CE pending)	4 1/2 digits	47LLC
VT input	4 1/2 digits	47LPT
CT input	4 1/2 digits	47LCT
AC input	4 1/2 digits	47LAC
Frequency input (AC line voltage)	4 1/2 digits	47LHZ
Frequency input	4 1/2 digits	47LPA
Frequency input, process integration	6 digits	47LPQ

FUNCTIONAL FEATURES

- Scaling, forced zero, low-end cutout
- Temperature unit °C or °F selectable
- Burnout (TC/RTD)
- Moving average function to suppress the display flickering
- Tare adjustment (47LLC)
- Scaled reading representing speed (m/s), rotation (rpm) and other counts (47LPA)
- Count stored in memory at the loss of power supply (47LPQ)
- Max. and Min. value display via the front control
- LED brightness adjustable by five levels
- Programming lockout
- Loop test output provides a simulated analog output proportional to a reference display reading to calibrate the receiving instrument

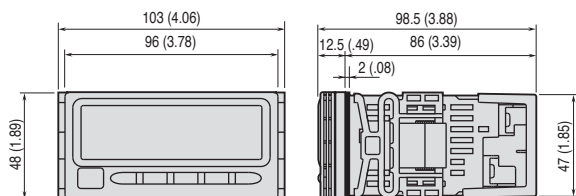
SPECIFICATIONS

Input type Model No.	DC input, indication only 47LYV	DC mV/V/mA input 47LV	Thermocouple input 47LT	RTD input 47LR
Input	±10V, ±5V, 0-5 V, 1-5 V, 0-20 mA, 4-20 mA Specified when ordering	±10V, ±5V, 0-5 V, 1-5 V, 0-20 mA, 4-20 mA, ±1V, ±100mV, ±10mV, ±1mA, ±200V, ±100mA	K, E, J, T, E, B, R, S, N	Pt 100, JPt 100, Pt 50
Display	±19999, red or orange	±19999, six colors	-1999 to 9999, six colors	
Decimal point position	10 ⁻¹ , 10 ⁻² , 10 ⁻³ , 10 ⁻⁴ or none		10 ⁻¹ or none	
Read rate	Max. 40/sec (25 ms)			Max. 20/sec (50 ms)
Alarm output (optional)	---	SPDT x 2 or N.C. x 4, 250 Vac or 30 Vdc @3 A		
DC output (optional)	---	4-20 mA, 0-20 mA, 0-10 V, 0-5 V, 1-5 V, -10 to +10 V, specified when ordering		
Power input	100-240 Vac, 24 Vdc, or 110 Vdc			
Dielectric strength	2000 Vac @1 minute (input to power to ground)	2000 Vac @1 minute (input to DC output to HH/H output to LL/L output to power to ground)		

Input type Model No.	Potentiometer input 47LM	Strain gauge input 47LLC	VT input (r.m.s. sensing) 47LPT	CT input (r.m.s. sensing) 47LCT
Input	Total resistance 100 to 10k Ω, Min 10% of span, Exc. 1.2 V	0-1.0 mV/V, 0-3.0 mV/V, 0-10.0 mV/V, 0-30.0 mV/V, Exc. 2.5, 5, 7.5 or 10 V	0-150 Vac, 0-300 Vac, 50/60 Hz	0-1 Aac, 0-5 Aac, 50/60 Hz
Display	±9999, six colors	±19999, six colors		
Decimal point position	10 ⁻¹ , 10 ⁻² , 10 ⁻³ or none	10 ⁻¹ , 10 ⁻² , 10 ⁻³ , 10 ⁻⁴ or none		
Read rate	Max. 40/sec (25 ms)			
Alarm output (optional)	SPDT x 2 or N.C. x 4, 250 Vac or 30 Vdc @3 A			
DC output (optional)	4-20 mA, 0-20 mA, 0-10 V, 0-5 V, 1-5 V, -10 to +10 V, specified when ordering			
Power input	100-240 Vac, 24 Vdc, or 110 Vdc			
Dielectric strength	2000 Vac @1 minute (input to DC output to HH/H output to LL/L output to power to ground)			

Input type Model No.	AC input (r.m.s. sensing) 47LAC	Frequency input (AC line) 47LHZ	Frequency input 47LPA	Process integration 47LPQ
Input	0-2 mA, 0-20 mA, 0-200 mA, 0-0.1 V, 0-1 V, 0-10 V	45-55 Hz, 55-65 Hz, 45-65 Hz, 350-450 Hz, 10-500 Hz (max. 300 V)	Open collector or voltage pulse, 0-0.01 Hz to 0-100 kHz	Open collector or voltage pulse, Max. 100 kHz
Display	±19999, six colors			-99999 to 999999, six colors
Decimal point position	10 ⁻¹ , 10 ⁻² , 10 ⁻³ , 10 ⁻⁴ or none			10 ⁻¹ , 10 ⁻² , 10 ⁻³ , 10 ⁻⁴ , 10 ⁻⁵ or none
Read rate	Max. 40/sec (25 ms)	---	---	---
Alarm output (optional)	SPDT x 2 or N.C. x 4, 250 Vac or 30 Vdc @3 A			
DC output (optional)	4-20 mA, 0-20 mA, 0-10 V, 0-5 V, 1-5 V, -10 to +10 V, specified when ordering			
Power input	100-240 Vac, 24 Vdc, or 110 Vdc			
Dielectric strength	2000 Vac @1 minute (input to DC output to HH/H output to LL/L output to power to ground)			

EXTERNAL DIMENSIONS mm (inch)



Your local representative: