

LANDMARK INDICATOR LMi

DIGITAL PANEL METER FOR
PROVIDING A TEMPERATURE
DISPLAY



① FOR USE WITH FIXED SPOT PYROMETERS



LAND
AMETEK®



QUALITY CUSTOMER SOLUTIONS

LANDMARK INDICATOR LMi

AMETEK LAND HAS BEEN MANUFACTURING PRECISION MEASURING EQUIPMENT SINCE 1947.

WE ARE SPECIALISTS IN NON-CONTACT TEMPERATURE MEASUREMENT AND COMBUSTION MONITORING WITH APPLICATIONS ACROSS DIVERSE INDUSTRIES SUCH AS STEEL AND GLASS MAKING, POWER GENERATION AND CEMENT MANUFACTURE.

As part of AMETEK Process & Analytical Instruments Division since 2006, our customers benefit from the worldwide AMETEK sales and service team.

The LANDMARK Indicator LMi is a digital panel meter that can display current signals in engineering units and temperature from AMETEK Land's range of pyrometers. The display, which can be configured to be any colour with adjustable brightness, has a high contrast allowing the meter to be read in all lighting conditions from bright sunlight to total darkness.

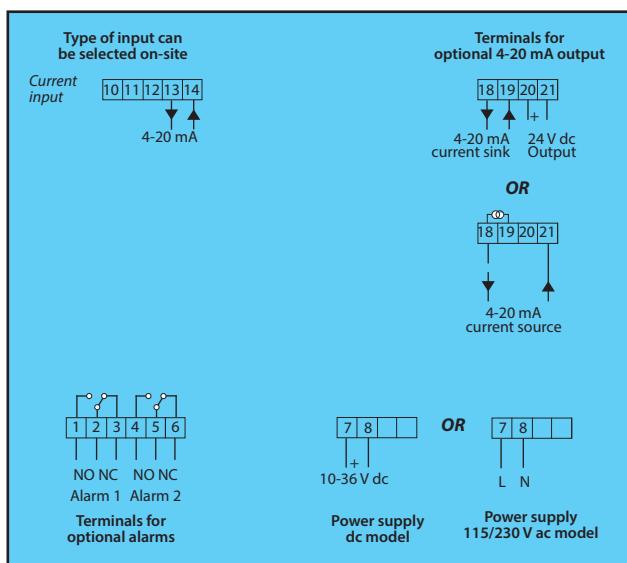
The main application of the LMi is to display a temperature in a process area. The zero and span of the display are independently adjustable allowing the meter to be calibrated to display any linear variable represented by the input current. Maximum and minimum display values can be shown and a root extractor enables flow measurements to be displayed in linear engineering units.

The LMi is configured via four front panel push buttons using a simple intuitive menu structure. An optional security code prevents accidental adjustment.

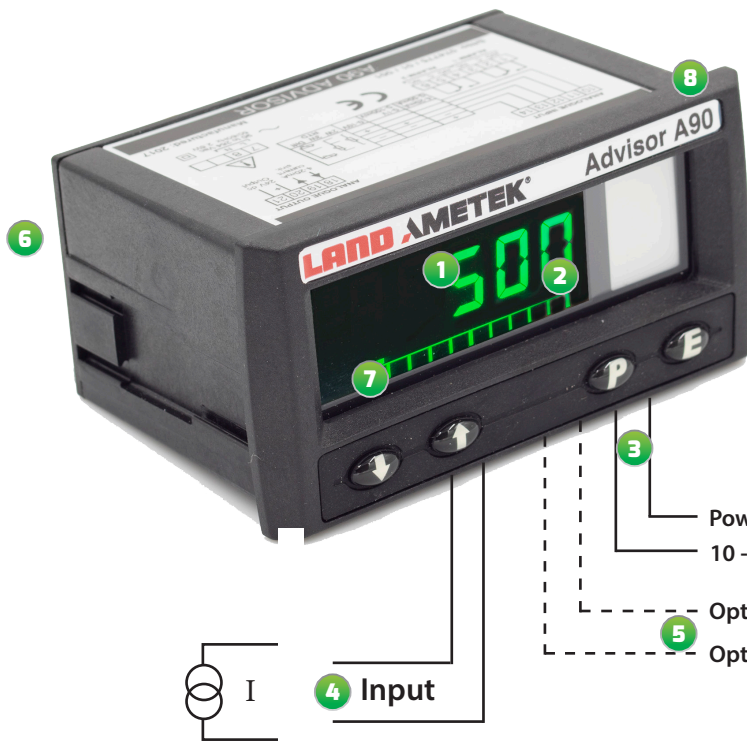
The colourful 11 mm five digit display and 31 segment bargraph employ a novel technique that allows the display digits to be in any colour on a black background. When fitted with alarms the display colour can be linked to the alarm status. For example, a green display could indicate normal operation, the display changing to red when a high alarm occurs and to blue for a low alarm. The display intensity is fully adjustable preventing dazzle and preserving operators night vision.

IP66 front panel protection and a neoprene gasket to seal the joint between the panel meter and the instrument panel, make the instrument suitable for use in areas that will be cleaned with a hose. To simplify installation and maintenance, the LMi has removable terminal blocks allowing panel wiring to be completed before the LMi meter is installed.

TERMINAL CONNECTIONS ▼



SPECIFICATION & DESIGN



1: MULTI-COLOUR DISPLAY

Visible in all lighting conditions.

2: BAR GRAPH DISPLAY

5 digit 11 mm and 31 segment.

3: DC AND MAINS POWERED MODELS

4: CURRENT LANDMARK INDICATOR A90

5: OPTIONAL FEATURES

Alarms and isolated 4/20 mA output Transmitter power supply.

6: EASY ON-SITE SCALE CARD INSTALLATION

7: MAX AND MIN DISPLAY

8: 96 X 48 MM DIN ENCLOSURE WITH IP66 FRONT

Power Supply

10 - 36 V DC Or 90 to 264 V AC





Optional Dual Alarms

Optional Isolated 4/20 mA output and 24 V supply

4 Input

Optional alarms provide two channels, each with a change over relay output which may be independently configured as a high or low alarm. The alarm set points may be adjusted from within the configuration menu, or from the meter display mode via a separate optional security code. In addition to changing the display colour when an alarm is activated, display annunciators show the status of both alarms.

MODELS

 LMi DC	24 V DC powered
 LMi DC-AO	24 V DC powered Dual Alarms
 LMi AC	90-263 V AC powered
 LMi AC-AO	90-263 V AC powered Dual Alarms

LANDMARK INDICATOR LMi

SPECIFICATIONS

Supply Voltage:	DC model 10 to 36 V DC or AC model 90 to 264 V AC 47 - 63 Hz
DISPLAY	
Type:	Negative liquid crystal with multicolour backlight 5 digits 11 mm high and 31 segment bar graph
Span:	Adjustable between 0 and ± 99999
Zero:	Adjustable between 0 and ± 99999
Decimal point:	1 of 4 fixed positions, absent or automatic
Polarity:	Automatic minus sign
Zero blanking:	Blanked apart from 0 in front of decimal point
Direction:	Display may increase or decrease with increasing input
Reading rate:	4 per second
Over range:	99999 or -99999 with all decimal points and bar graph flashing
INPUTS (selectable on-site)	
Current:	4 - 20 mA
ENVIRONMENTAL	
Operating temperature:	-40 to +55 °C (-40 to 131 °F)
Storage temperature:	-40 to +85 °C (-40 to 185 °F)
Humidity:	to 95% at 40°C non condensing
Enclosure:	Front IP66, rear IP20
EMC:	Complies with 2014/30/EU
LVD:	Complies with 2014/35/EU
Isolation:	ac supply 3k V rms; dc supply 1.5k V; Alarm contact 4k V rms; All other circuits 500 V rms
MECHANICAL	
Terminals:	Removable with screw clamp Power & alarms 0.5 to 2.5 mm ² cable
Others:	0.5 to 1.5 mm ² cable Weight 0.25 kg
Dimensions:	96 x 48 x 72.5 mm (3.78 x 1.89 x 2.85 in)

AMECARE
PERFORMANCE SERVICES
AMETEK Land's AMECare Performance Services ensure peak performance and maximum return on investment over the life of your equipment.

We will deliver this by:

- Proactively maintaining your equipment to maximize availability.
- Optimizing solutions to meet your unique applications.
- Enhancing user skills by providing access to product and application experts.

AMETEK Land's global service network provides unparalleled after-sales services to ensure you get the best performance and value from your AMETEK Land products. Our dedicated service centre teams and on-site engineers are trained to deliver the highest standard of commissioning, maintenance and after-sales support.

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SYSTEM 4
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