

# MTL661 AND MTL662 ZONE 2 INDICATORS

non-arcing, loop powered

The MTL661-NA (field mounting) and the MTL662-NA (panel mounting) are 4-20mA, loop-powered indicators for Zone 2 hazardous area operation. The small voltage drop of <1V allows the loop powered display to be installed in almost any 4–20mA loop.

Configuration is carried out using the front panel switches (which can be password protected). Range units, upper and lower limits, decimal point positioning and number of digits displayed are all configured via the front panel.

## SPECIFICATION

### Unit location

Zone 2, IIC, T4 hazardous area  
Div 2, Group A, hazardous location

### Display

Six digits - 17mm height (process value)  
Eleven 8mm digits (process units & current)

### Voltage requirements under all conditions

<1V, loop powered

### Ambient Temperature

Operating: -20°C to +70°C  
Storage: -40°C to +80°C

### Humidity

5-99%RH

### Input range

4-20mA

### Over-range

200mA maximum without damage

### Display Range

-999999 to 999999 (Configurable)  
Number of digits after decimal point configurable

### Zero and span

Setting: anywhere in range

### Scale direction

Normal or reverse: software selected.

### Out of range indication

"----- RANGE ERROR" displayed between 3.5 - 3.75mA  
"999999 RANGE ERROR" displayed at current >22mA

### Operating modes

Linear or square root extraction is software selectable.

### Accuracy at 20°C

± 0.01mA

### Effects of temperature on accuracy

Zero: ± 0.0025% of span /°C  
Span: ± 0.01% of span /°C

## ACCESSORIES

Order code	Description	Used with
WMP66	Wall mounting plate	MTL661/663
PMA66	Pipe mounting adaptor	MTL661/663
PIP66-ABS	Pipe mounting kit	MTL661-ABS
PIP66	Pipe mounting kit	MTL661-NA
GAS66	Spare gaskets	MTL661-NA/661-ABS
GAS660	Spare gaskets - pk of 10	MTL661/663



### Ripple rejection

<0.01mA error with 1mA peak to peak ripple at 50Hz

### Dimensions

See final page

## APPROVALS

Country	Europe (ATEX)
Authority	KEMA
Standards	EN 50021:1999 EN 50281-1-1: 1998
Certificate/ file no.	KEMA 03ATEX1509
Approved for	⊕ II 3 GD EEx nA II T4 T 80°C T <sub>amb</sub> = -20°C to +70°C

(The maximum temperature of the enclosure - T 80°C - is referred to an ambient temperature of 70°C)

## ORDERING INFORMATION

When ordering a MTL661 or MTL662 for Zone 2, use one of the following order codes to uniquely specify your requirement.

Order code	Type	Backlight	Case material	Weight gms *	Case style
MTL661-NA†	Field	No	Aluminium	825	D
MTL662-NA†	Panel	No	Aluminium	425	E

\*nominal

† Delivered product will be labelled **MTL661** or **MTL662**, as appropriate, and marked to indicate "Zone 2 use only".

### Recommended IS interfaces for powering display

#### Input circuits (in series with transmitter)

MTL5541, MTL4541, MTL7787+

#### Output circuits (direct connected or in series with field device)

MTL4546C, MTL5546\*, MTL5546Y, MTL7728P+  
\*with field device in series

### Recommended IS interfaces for powering backlight

MTL5521, MTL4521, MTL7728P+

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.



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