

# MTL4788+ and MTL4788R+ FOR TWO 4/20mA TRANSMITTERS



The MTL4788+ and MTL4788R+ are twin 2-channel barriers designed for use with 4/20mA transmitters in IIC gas groups. The MTL4788+ is an alternative to MTL4787/4787P units in installations using closely regulated power supplies. Channels 1 and 3 supply power, with channels 2 and 4 acting as signal returns in each of the two transmitter loops. MTL4788R+ is similar to the MTL4788+ but includes a 250Ω precision resistor on the hazardous side of channels 2 and 4 to provide a 1–5V output to the safe area. The modules will operate with bussed power if this is available.

## SPECIFICATION

(See also common specification)

<b>Channel numbers</b> 1 and 3	<b>Channel numbers</b> 2 and 4
<b>Safety description</b> 28V, 300Ω, 93mA	<b>Safety description</b> 10V, 50Ω, 200mA
<b>Polarity</b> Positive	<b>Polarity</b> Positive
<b>Max. end-to-end resistance</b> 330Ω	<b>Max. end-to-end resistance</b> 84Ω
<b>V<sub>wkg</sub> at 10μA</b> 26.1V	<b>V<sub>wkg</sub> at 1μA</b> 6.4V
<b>V<sub>max</sub></b> 27.0V	<b>V<sub>max</sub></b> 7.0V
<b>Fuse rating</b> 50mA	<b>Fuse rating</b> 50mA
<b>Matched power</b> 0.65W	<b>Matched power</b> 0.50W

## MAXIMUM CABLE PARAMETERS

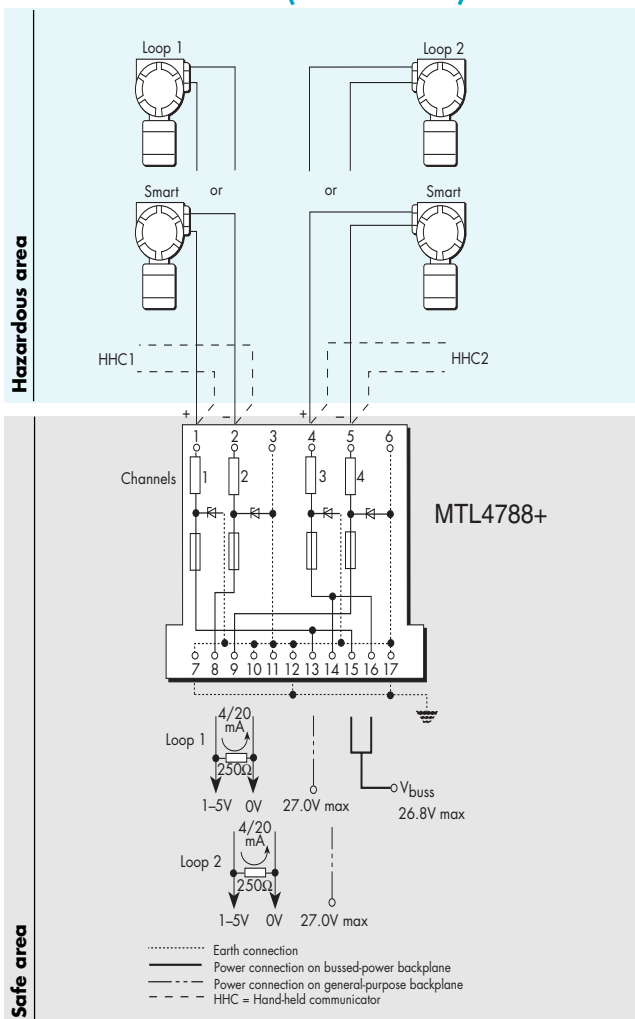
(for channel pairs 1 & 2 or 3 & 4, plus earth return)

BASEEFA (group IIC)			FM (groups A & B)	
Capacitance (μF)	Inductance (mH) or L/R ratio (μH/Ω)		Capacitance (μF)	Inductance (mH)
0.13	0.37	24	0.11	4.34

See also approvals, dimensions and ordering information

Sect 1a-40

## ANALOGUE INPUTS (HIGH-LEVEL)



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