

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)

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

MAXIMUM CABLE PARAMETERS

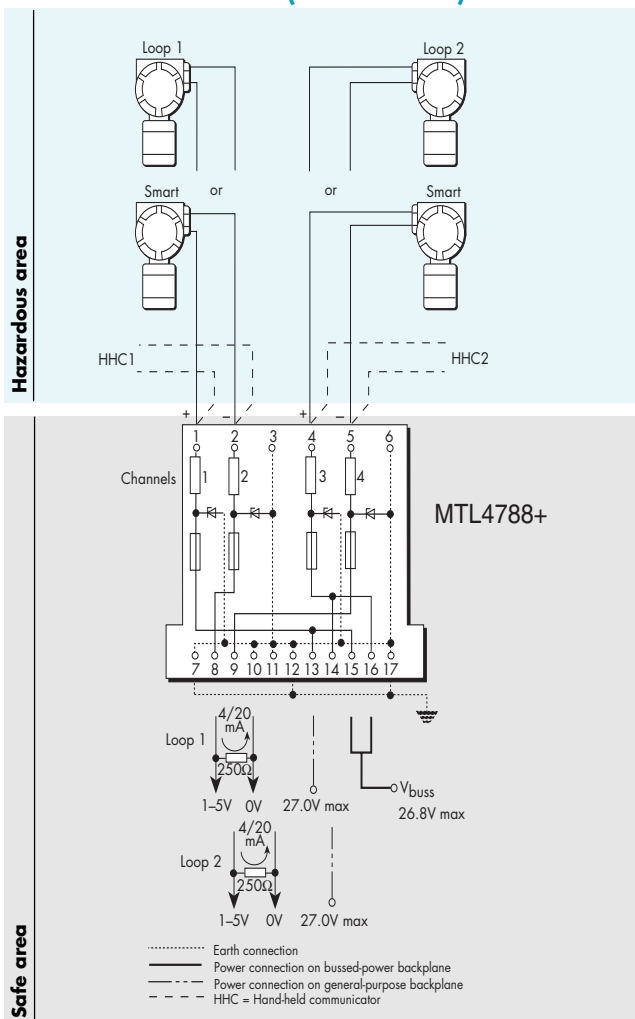
(for channel pairs 1 & 2 or 3 & 4, plus earth return)

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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