SPECIFICATION

Number of channels

One Location of RTD Zone 0, IIC, T4 hazardous area Div. 1, Group A, hazardous location

Resistance source

2-, 3-, or 4-wire* RTDs to BS 1904/DIN 43760 (100 Ω at 0° $\,$ C) *user selectable by switches (factory set for 3-wire)

 $\frac{\text{Resistance range}}{10\,\Omega \text{ to } 400\,\Omega}$

RTD excitation current

200 µ A nominal

Output configuration

2, 3 or 4 wires (independent of mode selected for hazardousarea terminals)

Output range

 $10\,\Omega$ to $400\,\Omega$ (from a $100\,\mu\,\mathrm{A}$ to 5mA source)

Temperature drift

 $\pm\,10m\,\Omega\,/\,C^\circ~$ typical (0.01%/ $^\circ~$ C @ 100 $\Omega\,)$

Response time

To within 4% of final value within 1s Safety drive on open-circuit sensor

Upscale to 420Ω nominal

Transfer accuracy@20° C

 $<0.15\,\Omega$ at excitation current 1 - 5mA $<0.25\,\Omega$ at excitation current 0.5 - 1mA

Wiring









Isolation 250V rms, tested at 1500V rms minimum, between safe- and hazardous-area terminals. 50V between safe-area circuits and power supply Supply voltage 20 - 35V dc Location of units Safe area **Terminals** Accepts conductors of up to 2.5mm2 stranded or single-core Mounting T-section 35mm DIN rail (7.5 or 15mm) to EN 50022 Ambient temperature limits -20 to $+60^{\circ}$ C (-6 to $+140^{\circ}$ F) operating -40 to $+80^{\circ}$ C (-40 to $+176^{\circ}$ F) storage Humidity 5 to 95% relative humidity Weight

Approximate (except where indicated) MTL5500 150g $\,$

Connectors

Each unit is supplied with signal connectors, as applicable. When using crimp ferrules for the hazardous or non-hazardous (safe) signal connectors the metal tube length should be 12mm and the wire trim length 14mm.

REV.	PROJECT NAME:	Cooper Industries Japan K.K.		Model name		MTL5582	MTL5582	
REV.	USER NAME :	TEL: +81-(0)3-5420-1281 FAX: +81-(0)3-5420-2405		SIZE	FSCM NO	Drawing No.		rev
REV.	JOB NAME :	DATE:	2011/Jun/7			SS-MTL5582		-
	Ref no.:	CHKD T.IWANE	DRAWN K.KUSAKABE	SCALE	N/A	SHEET	1/1	