	Dimensions in mm			Do Not Scale	Third Angle Projection						
iss	Date	Drn	Modification		MEASUREMENT TECHNOLOGY LTD						
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## <u>Division 2 or Zone 2 Hazardous</u> <u>Location</u>

## Notes.

- The multi-pin connector of the MTL4850 either plugs directly into the Trident backplane or via a Triconix Caddy system into the Tricon Interface card. The functions of all connections are defined in Table One on Sheet 2.
- 2. In Zone 2 installations, the MTL4850 shall be mounted within an enclosure which meets the requirements of IEC 60079-0 and IEC 60079-15 and is capable of being installed in accordance with IEC 60079-14. Where installed in outdoor or potentially wet locations, the enclosure shall, at a minimum, meet the requirements of IP54. Where installed in locations providing adequate protection against the entry of solid foreign objects or water capable of impairing safety, the enclosure shall, at a minimum, meet the requirements of IP4X.

In Class 1, Division 2 installations, the MTL4850 shall be mounted within a tool-secured enclosure installed in accordance with the enclosure, mounting, spacing, and segregation requirements of the ultimate application which is capable of accepting one or more of the Class 1, Division 2 wiring methods specified in the National Electrical Code ANSI/NFPA 70 Article 500.

- 3. The input voltage for the MTL4850 shall be limited to 18Vdc to 35Vdc.
- 4. The MTL4850 is approved by FM for mounting in a Class 1, Division 2, Groups A, B, C or D Hazardous (Classified) Location. The MTL4850 is certified by FM under the requirements of the IECEx scheme for mounting in a Zone 2, Group IIC Hazardous Location.
- 5. The Temperature Class is T4 over a temperature range of -40°C to +70°C.

System Certificate No:	Drn. By	СМВ	Scale	N/A			
Certifying Authority: FM	Drn. Date	3.08	Sheet	1	of	3	
itle		•	Drg. No	).			
Control Drawing for MTL4850 HART Multiplexer			SCI-1040				

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			Dime	ensions in mm D	o Not S	cale Third Angle Projection
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				1	able One	<u>e</u>
			1	0V	51	Cart 3' The arover as the shiftship
			3	0.V CH1+	52 53	θV CH3+
			4	CH2+	54	CH4+
			5	CH5+ CH6+	55 56	CH7+ CH8+
			7	CH9+	57	CH11+
			8	CH10+ CH13+	58 59	CH12+ CH15+
			10	CH14+	60	CH16+
			11	CH1-	61	CH3-
			12	CH2- CH5-	62	CH4- CH7-
			14	CH6-	64	CH8-
			15 16	CH9- CH10-	65	CH11- CH12-
7			17	CH10-	67	CH12-
			18	CH14-	68	CH16-
7			19	0V 0V	69 70	0V I 0V I
			21	P0_ISOL	71	P2_ISOL
			22	P1_ISOL	72	P3_ISOL
			23	P4 ISOL P5 ISOL	73	P6 ISOL P7 ISOL
			25	SCLK	75	MOSI
			26 27	MISO VIN+	76	SS L VIN+
			28	VIN+	78	VIN+
			29	CH17+	79	CH19+
	210000		30	CH21+	80	CH23+
			32	CH21+	82	CH24+
			33	CH25+	83	CH27+
			34 35	CH26+ CH29+	84 85	CH28+ CH31+
			36	CH30+	86	CH32+
			37	CH17-	87	CH19-
			38 39	CH18- CH21-	88	CH20- CH23-
			40	CH22-	90	CH24-
			41 42	CH25- CH26-	91 92	CH27- CH28-
71			43	CH29-	93	CH31-
			44	CH30-	94	CH32-
7			45 46	ALARM_ISOL	95 96	ALARMCLEAR_ISOL
			47	0VISOL	97	RS485A
			48 49	RS485B	98	0V
			50	OV	100	0V
		In s	ummar	v.	•	•
			6	4x loop connections (CH	Ix+/CHx-	<b>-)</b>
					VDC)	
				0x VIN- (0V x parallel address interface (P0		P7_ISOL)
					_ISOL _ARM_IS	
			1:	x Alarm Clear input (AL	ARMCL	EAR_ISOL)
				x Internal module 0V (0V		
						O, MOSI, SS_L)
				x RS485 (RS/spare)	483A, KS	S485B, 0VISOL)
			(2	· spuio)		
		\4:6:	cate N	lo:		Drn. By CMB Scale N/A
vete	m C	יידודוק.				
	em C					Drn. Doto
			ority:			Drn. Date 3.08 Sheet 2 of 3 Drg. No.

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## Documentation required by IEC 60079-0:2007 Clauses 24 and 30

1. The IECEx marking on the MTL4850 that has not previously been stated in this document is as follows:-

Ex nA IIC T4 IECEx FME 08.0001X Made in Luton, England by Measurement Technology Ltd

The input voltage range and ambient temperature range is listed previously in this document.

2. Instructions for safety

The MTL4850 must be installed and used according to the requirements of the standards previously defined in this document for Zone 2 installations, and in the IECEx certificate.

No assembly or dismantling of the MTL4850 is possible or necessary. The product is not user-serviceable.

3. Special Conditions of Use

The MTL4850 must be mounted in an enclosure which meets the requirement for Zone 2 installations as previously defined.

System Certificate No:		CMB	Scale	N/A			
Certifying Authority: FM	Drn. Date	3.08	Sheet	3	of	3	
Title			Drg. N	ο.			
Control Drawing for MTL4850 HART Multiplexer			SCI-1040				