

Dimensions in mm

Do Not Scale

Third Angle Projection



Iss	Date	Drn	Modification
1	11.08	YAJ	NOTE 2 MODIFIED.

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Division 2 Hazardous Location

Notes.

1. 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. The MTL4850 must be installed in a suitable enclosure, subject to acceptance by the local authority having jurisdiction.
3. The nominal power supply of 24Vdc is rated from 18Vdc to 35Vdc.
4. The MTL4850 is approved by CSA for mounting in a Class 1, Division 2, Groups A, B, C or D Hazardous Location. The Temperature Class is T4 over a temperature range of -40°C to +70°C.

WARNING: EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.

WARNING: EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.



System Certificate No: Certifying Authority: CSA	Drn. By YAJ	Scale N/A
	Drn. Date 11.08	Sheet 1 of 2
Title Installation Drawing for MTL4850 HART Multiplexer		Drg. No. SCI-1041

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**Table One**

1	0V	51	0V
2	0V	52	0V
3	CH1+	53	CH3+
4	CH2+	54	CH4+
5	CH5+	55	CH7+
6	CH6+	56	CH8+
7	CH9+	57	CH11+
8	CH10+	58	CH12+
9	CH13+	59	CH15+
10	CH14+	60	CH16+
11	CH1-	61	CH3-
12	CH2-	62	CH4-
13	CH5-	63	CH7-
14	CH6-	64	CH8-
15	CH9-	65	CH11-
16	CH10-	66	CH12-
17	CH13-	67	CH15-
18	CH14-	68	CH16-
19	0V	69	0V_I
20	0V	70	0V_I
21	P0_ISOL	71	P2_ISOL
22	P1_ISOL	72	P3_ISOL
23	P4_ISOL	73	P6_ISOL
24	P5_ISOL	74	P7_ISOL
25	SCLK	75	MOSI
26	MISO	76	SS_L
27	VIN+	77	VIN+
28	VIN+	78	VIN+
29	CH17+	79	CH19+
30	CH18+	80	CH20+
31	CH21+	81	CH23+
32	CH22+	82	CH24+
33	CH25+	83	CH27+
34	CH26+	84	CH28+
35	CH29+	85	CH31+
36	CH30+	86	CH32+
37	CH17-	87	CH19-
38	CH18-	88	CH20-
39	CH21-	89	CH23-
40	CH22-	90	CH24-
41	CH25-	91	CH27-
42	CH26-	92	CH28-
43	CH29-	93	CH31-
44	CH30-	94	CH32-
45	ALARM_ISOL	95	ALARMCLEAR_ISOL
46		96	
47	0VISOL	97	RS485A
48	RS485B	98	
49	0V	99	0V
50	0V	100	0V

In summary:

64x loop connections	(CHx+/CHx-)
4x VIN+	(24VDC)
10x VIN-	(0V)
8x parallel address interface	(P0_ISOL...P7_ISOL)
1x Alarm output	(ALARM_ISOL)
1x Alarm Clear input	(ALARMCLEAR_ISOL)
2x Internal module 0V	(0V_I)
4x SPI (referenced to 0V_I)	(SCLK, MISO, MOSI, SS_L)
3x RS485 (3 spare)	(RS485A, RS485B, 0VISOL)

System Certificate No:

Certifying Authority: CSA

Drn. By YAJ

Drn. Date 11.08

Scale N/A

Sheet 2 of 2

Title

Installation Drawing for MTL4850 HART Multiplexer

Drg. No.

SCI-1041