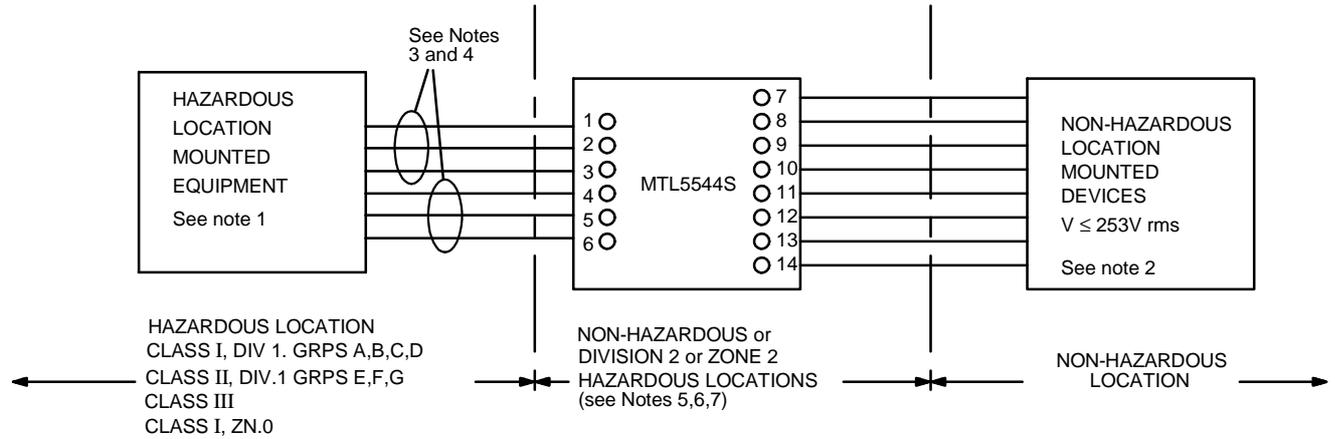




Iss	Date	Drn	Modification
1	5.10	CMB	
2	7.16	CMB	Addition of Zone 0 & Zone 2 references.

MEASUREMENT TECHNOLOGY LTD  
Luton, England  
Copyright Reserved - Written Permission  
to Copy Should be Obtained



**Note 1**

The Hazardous location equipment may be switches or thermocouples. Other apparatus such as RTD's, LEDs and non-inductive resistors may also be used if the auto-ignition temperature of the hazardous location is greater than T4 (275°F or 135°C). Certified devices with correct Entity Concept parameters may also be used. For installations in Canada, this equipment must be FM approved for Canada or CSA certified.

**Note 2**

The Non-Hazardous Location (or Control room) equipment must not generate or use more than 253Vrms.

**Note 3**

For guidance on the installation see ANSI/ISA RP 12.6.

**Note 4**

Entity Concept Parameters for terminals 1, 2 & 3 or 4, 5 & 6 of the MTL5544S are as follows.  $V_{oc} \leq 28V$ ,  $I_{sc} \leq 93mA$

Groups A and B	$C_a \leq 0.13\mu F$	$L_a \leq 4.2mH$
Groups C,E, F and G	$C_a \leq 0.39\mu F$	$L_a \leq 12.6mH$
Group D	$C_a \leq 1.04\mu F$	$L_a \leq 33.6mH$

**Note 5**

The MTL5544S is Associated Apparatus and when mounted in the appropriate enclosure (see notes 6 and 7) is suitable for installation in the following areas:

- Non - Hazardous Locations
- Class I Division 2 Groups A,B,C and D Hazardous Locations
- Class I Zone 2 Hazardous Locations
- Class II, Division 2, Groups F,G Hazardous Locations
- Class III, Division 2, Hazardous Locations



**Note 6**

Associated Apparatus must be installed in accordance with the National Electrical Code in an enclosure meeting the requirements of ANSI/ISA - S82.

**Note 7**

Use FMRC Approved dust-ignition proof enclosure(s) appropriate for environmental protection in Class II, Division 2, Groups F and G; Class III Division 2 Hazardous Locations.

**Note 8**

For use in Division 2 Hazardous Locations, the MTL5544S must be installed on Factory Mutual Research Corporation Approved Backplanes.

When the MTL5544S is installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit (s) which warns that the MTL5544S must not be removed or inserted unless the area is known to be non-hazardous.

**Note 9**

The MTL5541S and MTL5544D are single channel versions that use terminals 1, 2 & 3.

**Note 10**

Installations in Canada must comply with the Canadian Electrical code.

System Certificate No:	Drn. By N/A	Scale N/A
Certifying Authority: Factory Mutual	Drn. Date 5.10	Sheet 1 of 1
Title Installation Drawing for the MTL5541S, MTL5544S and MTL5544D	Drg. No. SCI-1051	