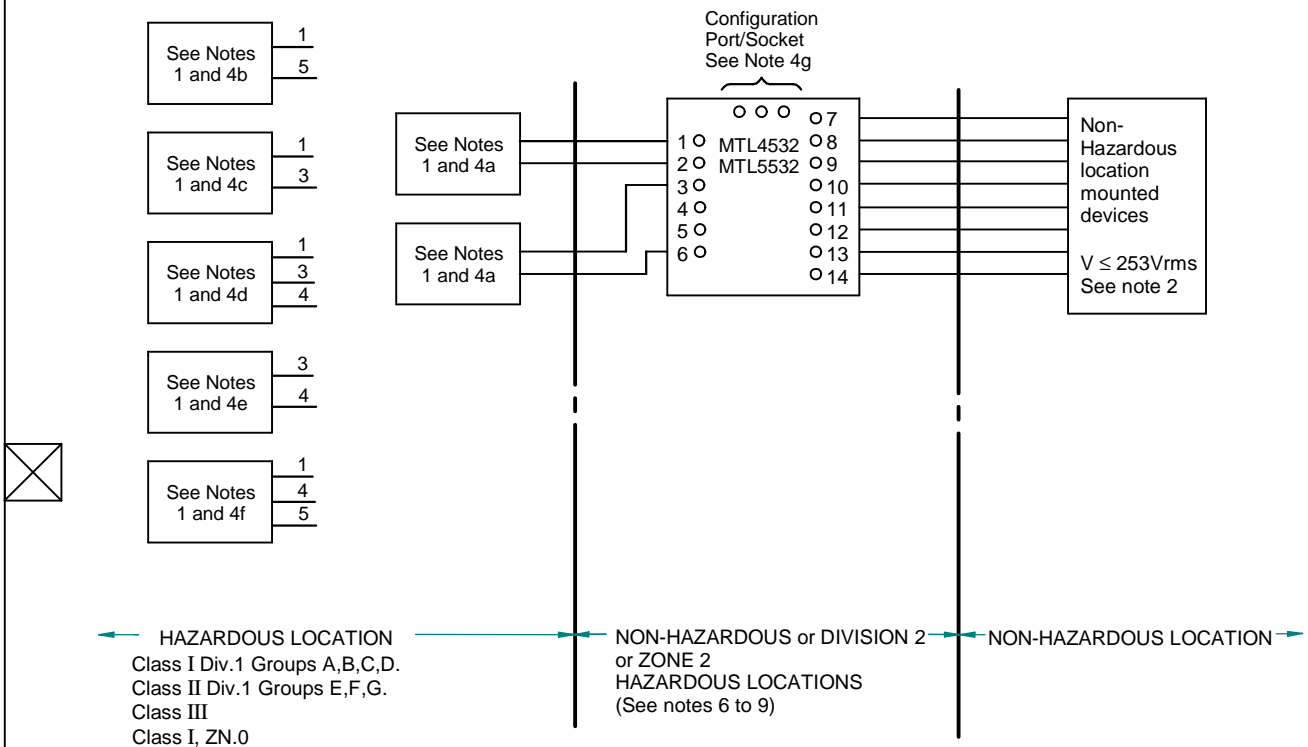


Iss	Date	Drn	Modification
1	3.10	CMB	
2	7.16	CMB	Addition of Zone 0 & Zone 2 references.

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



Note 1
The Hazardous Location Mounted Equipment may be switches, or Certified devices with correct Entity Concept parameters may also be used.

Note 2
The Non-Hazardous Location (or Control room) equipment must not generate or use more than 253Vrms or Vdc.

Note 3
For guidance on the installation see ANSI/ISA RP 12.6.

Note 4
See notes below for Entity Parameters:-

4a) Entity parameters for the terminal 1 with respect to 2, 1 with respect to 6 and 3 with respect to 6 are as follows :-

Voc = 10.5V and Isc = 14mA

Groups A and B	Ca ≤ 2.41µF	La ≤ 181.4mH
Groups C and E	Ca ≤ 16.8µF	La ≤ 725.6mH
Groups D,F and G	Ca ≤ 75µF	La ≤ 1000mH

4b) Entity parameters for the terminal 5 with respect to 1 are as follows :-

Voc = 10.5V and Isc = 1mA

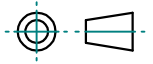
Groups A and B	Ca ≤ 2.4µF	La ≤ 1000mH
Groups C and E	Ca ≤ 16.8µF	La ≤ 1000mH
Groups D,F and G	Ca ≤ 75µF	La ≤ 1000mH

4c) Entity parameters for the terminal 1 with respect to 3 are as follows :-

Voc = 1.1V and Isc = 53mA

Groups A and B	Ca ≤ 100µF	La ≤ 12.6mH
Groups C and E	Ca ≤ 1000µF	La ≤ 50.6mH
Groups D,F and G	Ca ≤ 1000µF	La ≤ 101.2mH

System Certificate No:	Drn. By N/A	Scale N/A
Certifying Authority: Factory Mutual	Drn. Date 3.10	Sheet 1 of 2
Title Installation Drawing for the MTL4532 and MTL5532	Drg. No. SCI-1054	



Iss	Date	Drn	Modification
1	3.10	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 4 continued

4d) Entity parameters for the terminals 4 & 3 with respect to 1 are as follows :-

Voc = 28V and Isc = 93mA @28V
and 146mA @2.9V

Groups A and B	Ca ≤ 0.083μF	La ≤ 1.66mH
Groups C and E	Ca ≤ 0.65μF	La ≤ 6.67mH
Groups D,F and G	Ca ≤ 2.15μF	La ≤ 13.3mH

4e) Entity parameters for terminal 3 with respect to 4 are as follows :-

Voc = 28V and Isc = 93mA

Groups A and B	Ca ≤ 0.083μF	La ≤ 4.2mH
Groups C and E	Ca ≤ 0.65μF	La ≤ 12.6mH
Groups D,F and G	Ca ≤ 2.15μF	La ≤ 33.6mH

4f) Entity parameters for the terminals 5 & 4 with respect to 1 are as follows :-

Voc = 28V and Isc = 93mA @28V
and 94mA @27.5V

Groups A and B	Ca ≤ 0.083μF	La ≤ 4.02mH
Groups C and E	Ca ≤ 0.65μF	La ≤ 16.0mH
Groups D,F and G	Ca ≤ 2.15μF	La ≤ 32.1mH

4g) Entity parameters for the Configuration port/socket are as follows :-

Voc = 7.2V and Isc = 15mA

Groups A and B	Ca ≤ 0.433μF	La ≤ 60.7mH
Groups C and E	Ca ≤ 2.57μF	La ≤ 243.0mH
Groups D,F and G	Ca ≤ 10.2μF	La ≤ 486.1mH

Note 5

The MTL4532 and the MTL5532 are Associated apparatus and when mounted in the appropriate enclosure (see notes 7 and 8) is suitable for 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 or NRTL Listed 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 MTL4532 must be installed on Factory Mutual Research Corporation Approved Backplanes.

When the MTL4532 and the MTL5532 are installed in Division 2 Hazardous Locations, a warning label must be prominently affixed near the unit (s) which warns that the MTL4532 and the MTL5532 must not be removed or inserted unless the area is known to be non-hazardous.

Note 9

Installations in Canada must comply with the Canadian Electrical Code.

Note 10

For Zone 2 locations, the final enclosure must be at least IP54 or equivalent.

Note 11

For Zone 2 locations, the external transient protection must be set at 49V or less.

System Certificate No:	Drn. By N/A	Scale N/A
Certifying Authority: Factory Mutual	Drn. Date 3.10	Sheet 2 of 2
Title Installation Drawing for the MTL4532 and MTL5532	Drg. No. SCI-1054	