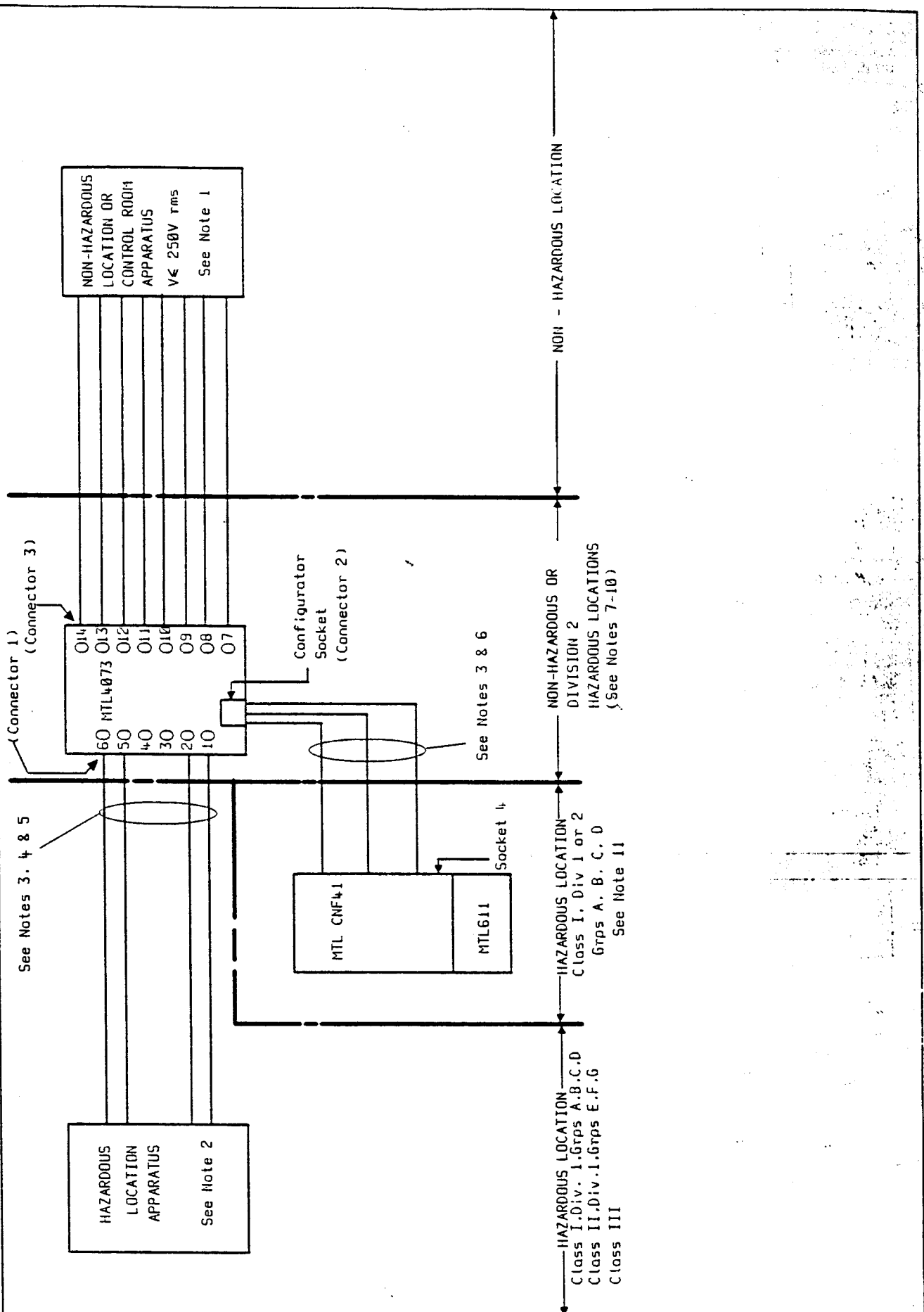


Iss	Date	Drn	Modification	No	Cl	Mod
1	7-93	ACH				
<b>MEASUREMENT TECHNOLOGY LTD</b> Luton, England Copyright Reserved - Written Permission to Copy Should be Obtained						



System Certificate No: N/A		Scale	N/A
Certifying Authority: Factory Mutual		Sheet	1 of 3
Title Installation drawing for the MTL4073 Temperature Converter		Drg. No.	SCI-403

Iss	Date	Drn	Modification	No	Cl	Ckd
1	7-93	ACH				

**Note 1** The Non-Hazardous Location (or Control Room) apparatus must not generate or use voltages on excess of 250Vrms.

**Note 2** Hazardous Location apparatus may be switches or thermocouples. Other apparatus such as RTD's, LED's and non-inductive resistors may also be used provided the autoignition temperature of the Hazardous Location is greater than T4(275°F or 135°C). Certified apparatus with the correct Entity Parameters may also be used.

**Note 3** For guidance on the installation see ANSI/ISA RP12.6.

**Note 4** The Entity Parameters for terminals 1,2,5 and 6 of Connector 1 of the MTL4073 are as follows:-  
 $V_t \leq 7.2V$   $I_t \leq 11.5mA$

Groups A and B	$Ca \leq 11.0\mu F$	$La \leq 245$
Groups C and E	$Ca \leq 33.0\mu F$	$La \leq 853mH$
Groups D,F and G	$Ca \leq 88.0\mu F$	$La \leq 1000mH$

**Note 5** The Entity Parameters for terminals 5 and 6 only of Connector 1 of the MTL4073 are as follows:-  
 $V_{oc} \leq 1.2V$   $I_{sc} \leq 3.8mA$

Groups A and B	$Ca \leq 1000\mu F$	$La \leq 3.6mH$
Groups C and E	$Ca \leq 1000\mu F$	$La \leq 1000mH$
Groups D,F and G	$Ca \leq 1000\mu F$	$La \leq 1000mH$

**Note 6** The following cable parameters must not be exceeded:-

Group	Capacitance ( $\mu F$ )	Inductance (mH)
Groups A and B	0.6	47
Groups C	1.8	141
Groups D	4.8	376

These figures apply when the MTL611/CNF41 and MTL4073 are interconnected as shown on sheet 1 of this drawing.

**Note 7** The MTL4073 is Associated Apparatus and when mounted in the appropriate enclosure (see notes 8 and 9) is suitable for the following areas:-

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

System Certificate No: N/A		Scale N/A
Certifying Authority: Factory Mutual		Sheet 2 of 3
Title Installation Drawing for the MTL4073 Temperature Converter		Drng. No. SCI-403

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

Iss	Date	Drn	Modificat ion	No	Cl	Ckd
1	7-93	ACH				

Note 8 Associated Apparatus must be installed in accordance with the USA National Electrical Code and in an enclosure meeting the requirements of ANSI/ISA-S82.

Note 9 Use FMRC - Approved or NRTL-Listed dust-ignition proof enclosures appropriate for environmental protection in Class II, Division 2, Groups F and G; Class III, Division 2 Hazardous Locations.

Note 10 For use in Division 2 Hazardous Locations the MTL4073 must be installed on Factory Mutual Research Corporation Approved Backplanes.

When the MTL4073 is installed in Division 2 Hazardous Locations a warning label must be prominently affixed near the unit(s) which warns that the MTL4073 must not be removed or inserted unless the area is known to be non-hazardous.

Note 11 The MTL611/CNF41 may also be located in the Non-Hazardous Division 1 or Division 2 Hazardous Locations. Cable parameters in Note 6 must be applied in all cases.

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

System Certificate No: N/A		Scale	N/A
Certifying Authority: Factory Mutual		Sheet	3 of 3
Title Installation Drawing for the MTL4073 Temperature Converter		Org. No.	SCI-403