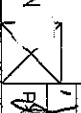
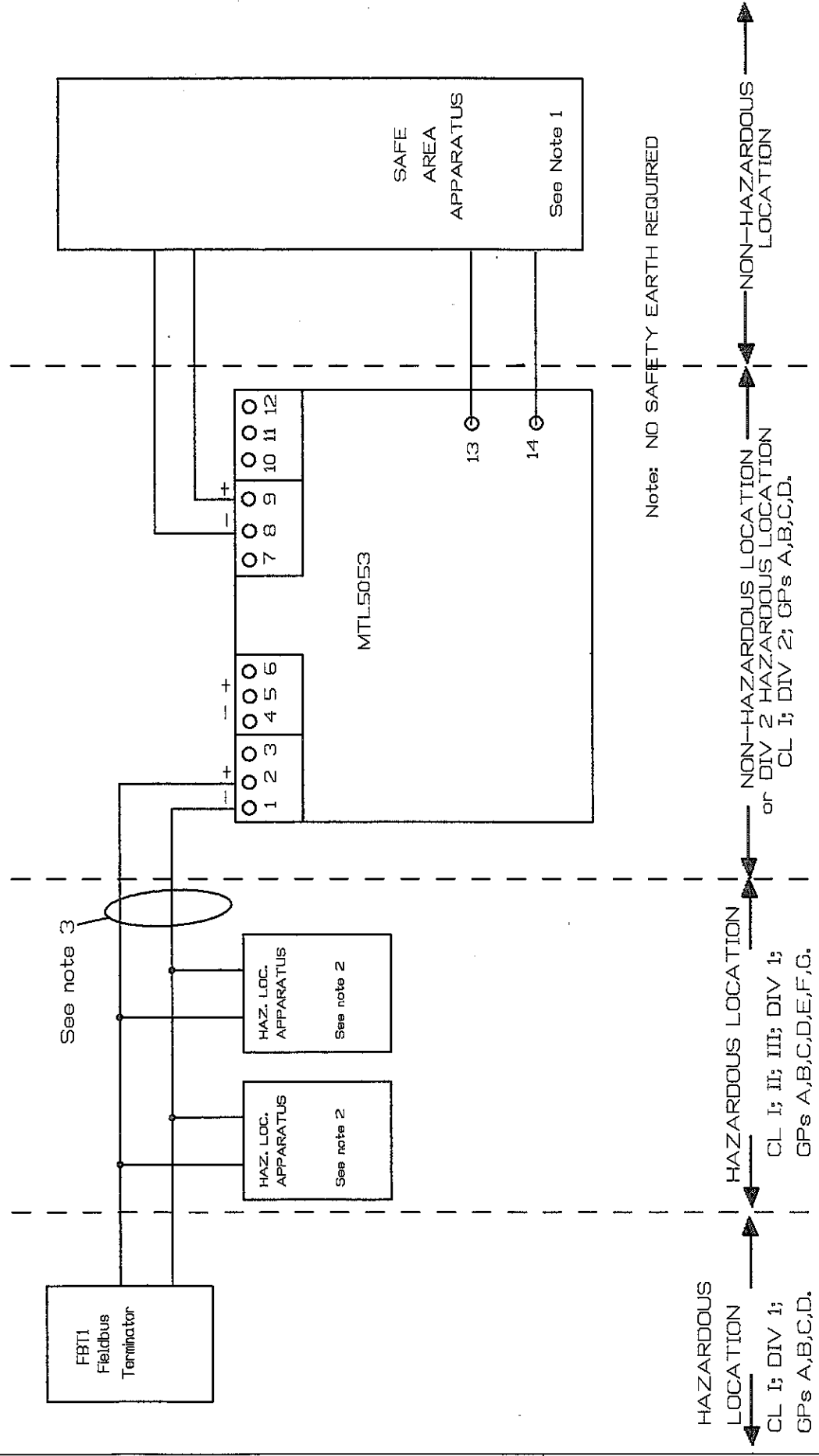


Iss	Date	3.98	PS	1
Modification				
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Iss	Date	Drm	Modification	
Ckd				

Dimensions in mm      Do Not Scale      Third Angle Projection



Notes: NO SAFETY EARTH REQUIRED

System Certificate No:		Scale	N/A
Certifying Authority: Factory Mutual		Sheet	1 of 2
Title		Drg. No.	
MTL5053 31.25Kbit/s FIELDBUS ISOLATOR Installation Diagram		SCI-753	

Iss	1	Date	3.98	PS	MEASUREMENT TECHNOLOGY LTD Luton, England Copyright Reserved - Written Permission to Copy Should be Obtained	Dimensions in mm Do Not Scale Third Angle Projection  <u>Note 1</u> The Non-Hazardous Location (for Control Room) equipment must not generate or use more than 250 volts r.m.s  <u>Note 2</u> The Hazardous Location equipment: any number of FMRC Approved devices which meet the power and EntityParameter requirements below may be connected to the Fieldbus: a) All device's electronic circuitry which interface directly to the Fieldbus must be powered from the fieldbus power. Other power sources in the devices (if any), must be galvanically isolated from the fieldbus power. b) Vmax of all device's must be equal to or greater than 22V. c) Imax of all device's must be equal to or greater than 216mA d) Pmax of all device's must be equal to or greater than 1.2W. e) The sum of all device's unprotected input capacitance Ci, plus the cable capacitance must be equal to or less than Ca for applicable Gas Group in note 7. f) The sum of all device's unprotected input inductance Li, plus the cable inductance must be equal to or less than La for the applicable Gas Group in note 7.  <u>Note 3</u> For guidance on the installation see ANSI/ISA RP12.6  <u>Note 4</u> The MTL5053 is Associated Apparatus and when mounted in the appropriate enclosure (See notes 6 and 7) is suitable for installation in the following area:- 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  <u>Note 5</u> Associated Apparatus must be installed in accordance with the National Electrical Code in an enclosure meeting the requirements of ANSI/ISA-S82.  <u>Note 6</u> Use FMRC Approved or NRTL Listed dust-ignition proof enclosure(s) Appropriate for the environmental protection in class II, Division 2, Groups F and G; Class III, Division 2 Hazardous Locations.  <u>Note 7</u> Entity Concept Parameters for each channel of the MTL5053 ie channel 1 (Terminals 1 & 2), channel 2 (Terminals 4 & 5) are as follows:- Terminal 2/5 Wrt 1/4    Voc ≤ 22V    Isc ≤ 216mA
Iss	1	Date	3.98	PS		
Modification						<u>Note 8</u> When the MTL5053 is installed in Division 2 Hazardous locations, a warning label must be prominently affixed near the unit(s) which warns that the MTL5053 must not be removed or inserted unless the area is known to be non-hazardous.
System Certificate No:		Scale	N/A			
Certifying Authority:	Factory Mutual		Sheet	2 of 2		
Title	MTL5053 31.25Kbit/s FIELDBUS ISOLATOR Installation Diagram		Drg. No.	SCI-753		

Groups A and B	$Ca \leq 0.26\mu F$	$La \leq 0.84mH$
Groups C and E	$Ca \leq 0.78\mu F$	$La \leq 3.48mH$
Groups D,F and G	$Ca \leq 2.09\mu F$	$La \leq 6.40mH$