

CERTIFICATE OF COMPLIANCE

HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

MTL5012, MTL5012S, MTL5014, MTL5015, MTL5043, MTL5053 and MTL5074 IsolatingBarriers
AIS/I,II,III/1/ABCDEFG - SCI-734, SCI-968, SCI-735, SCI-736, SCI-750, SCI-753, SCI-697; Entity
NI/I/2/ABCD/T5

Entity Parameters: Per applicable installation drawing.

Special Condition of Use:

1. The MTL5000 Series assemblies must be installed in suitable equipment enclosure in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

And

MTL4053 Isolating Barrier

AIS/I,II,III/1/ABCDEFG - SCI-771; Entity NI/I/2/ABCD/T5

Entity Parameters: Per installation drawing SCI-771.

Special Condition of Use:

1. The MTL4000 Series assemblies must be installed in suitable equipment enclosure in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application.

Equipment Ratings:

Associated Intrinsically Safe apparatus with connections to Class I, II, III Division 1, Group A, B, C, D, E, F and G in accordance with Entity requirements and applicable Installation Drawing SCI-734, SCI-968, SCI-735, SCI-736, SCI-750, SCI-753, SCI-697 or SCI-771; nonincendive for Class I, Division 2, Group A, B, C and D Temp code T5 hazardous (classified) indoor locations.

Approved for:

Measurement Technology Ltd. Power Court, Luton Bedfordshire, England LU1 3JJ

An FM 610 bal Enterprise



This certifies that the equipment described has been found to comply with the following FM Approval Standards and other documents:

Class 3600	1989
Class 3610	1988
Class 3611	1986
Class 3810	1989
Including Suppliment #1	1995

Original Project ID: 6D1A9.AX

FM Approval Granted: September 8, 1998

Subsequent Revision Reports / Date FM Approval Amended

3014761

July 1, 2002

FM Global Technologies LLC

Nicholas P. Ludlam

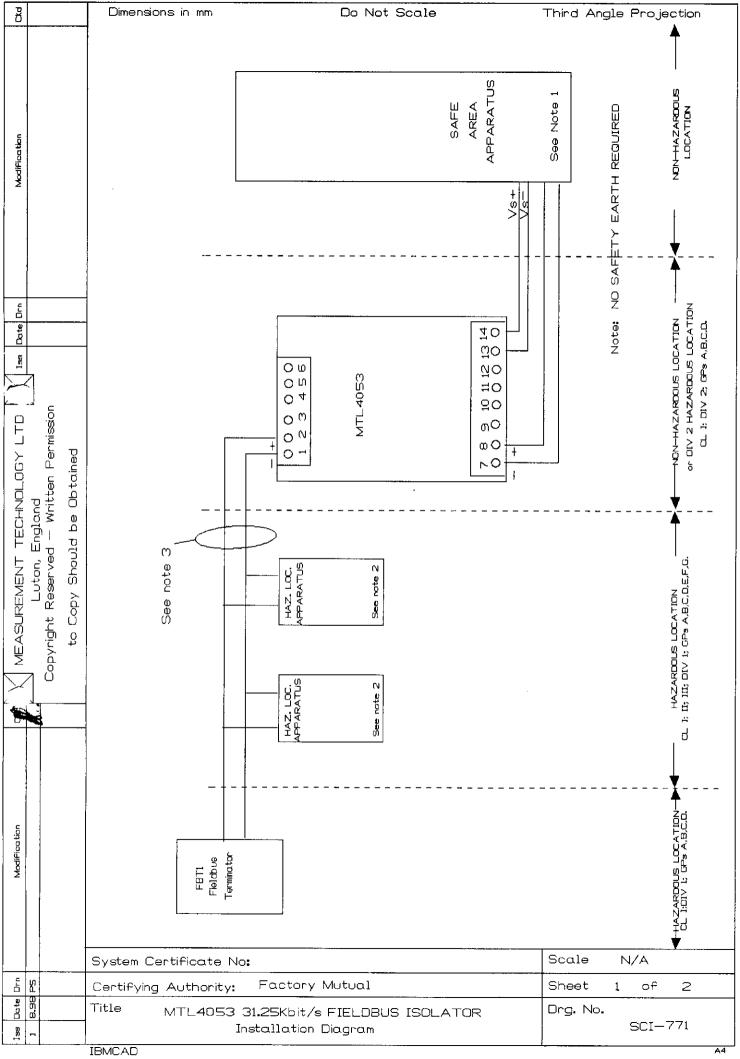
Technical Team Manager

July 9, 2002

Date

An FM 6 0 8 8 1 Enterprise

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	Ckd		Dimensions	s in mm	Do Not Scale		Third Angle Projection		
ļ			Note 1						
			The Non—Hazardous Location (for Control Room) equipment must not generate or use more than 250 volts r.m.s						
			Note 2						
			The Hazardous Location equipment: any number of FMRC Approved devices which meet the power and Entity Parameter requirements below may be connected to the Fieldbus:						
	a) All device's electronic circuitry which interface direction was be powered from the fieldbus power. Other power (if any), must be galvanically isollated from the fieldbus								
	PO ∑		•	-	vanically isollated from the fieldbus power.				
b) Vmax of all device's must be equal to or greater that c) Imax of all device's must be equal to or greater than									
		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.								
	Ę	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,							
	Date		Note 3 For guidance on the installation see ANSI/ISA RP12.6						
	ISS		Note 4						
		<u>c</u>	The MTL4053 is Associated Apparatus and when mounted in the appropriate enclosure (See notes 6 and 7) is suitable for installation in the following area:—						
	TECHNOLOGY LTD	Permissio		ardous Locations	55 15 11				
	<u>;</u>	9d 9d		· · · · · · · · · · · · · · · · · · ·	.B,C and D, Hazardou 'and G Hazardous Lo				
		en Per tained		Division 2, Hazardo	ous Locations .				
	OHNOLO(land	hitter Obto	Note 5 Associate	d Apparatus must I	be installed in accord	ance with th	e National		
	TECH	, 4)	Electrical		ure meeting the requir				
	7	rved -	Note 6 Use FRMC	: Approved or NRT	l listed dust—ignition	proof enclo	aure(s)		
	MENT uton,	\$ R	1 Appropriate for the environmental protection in class II, Division 2,						
		t Re Copy	Groups F and G; Class III, Division 2 Hazardous Locations. Note 7						
	ASL.	호 경 다 다	2 0 Note / D 0 Entity Concept Parameters for each channel of the MTL4053 ie channel 1						
	MEASUREM Lu	Use FRMC 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. Note 7 Entity Concept Parameters for each channel of the MTL4053 ie channel 1 (Terminals 1 & 2), channel 2 (Terminals 3 & 4) are as follows:— Terminal 2/5 Wrt 1/4 Voc ≤ 22V Isc ≤ 215mA							
Ì	ر کے	ا ٽ	ierminai 2	2/5 Wrt 1/4 Vo	C > 22V 19C > 216	m <i>A</i> .			
				Groups A and B	Cα ≤ 0.26μF	La ≤ 0.	84mH		
			-						
				Groups C and E	Ca ≤ 0.78µF	La ≤ 3.	48mH		
			. [Groups D,F and C	Ca ≤ 2.09µF	La ≤ 6.4	40mH		
Note 8 When the MTL4053 is installed in Division 2 Hazardous locations, a warning must be prominently affixed near the unit(s) which warns that the MTL4053 must not be removed or inserted unless the area is known to be									
	non—hazardous.								
1	System Certificate No:						Scale N/A		
	ج <u>۳</u>		Certifying A	Authority: Facto	Sheet 2 of 2				
Ì	Date 3.98		Title MTL4053 31.25Kbit/s FIELDBUS ISOLATOR Drg. No.						
ļ	<u> </u>		Installation Diagram SCI—771						
ı			IBMCAD				A4		