MOORE INDUSTRIES

DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)		DRAWN	C. Whan	6/09
DECIMALS	=±inch /mm	CHECKED	VG	6/09
.X	=±.1 /2.54	ENGINEER	H. Elsayed	6/09
.XX	=±.01 /0.25	SCALE	NONE	
.XXX	=±.005/0.125			
HOLES	=±.003/0.080			
ANGLES	=±1/2°			

CATEGORY: CONTROL DRAWING

TITLE: Field Installation Diagram: TS200 Device Coupler – cFMus –

DRAWING NUMBER: 100-100-76 SHEET 1 OF 2 | REVISION: B

REVISED BY: ECO 16973 | DATE: 9/13 | BY: CW | APPROVAL: CB

UNCLASSIFIED LOCATION

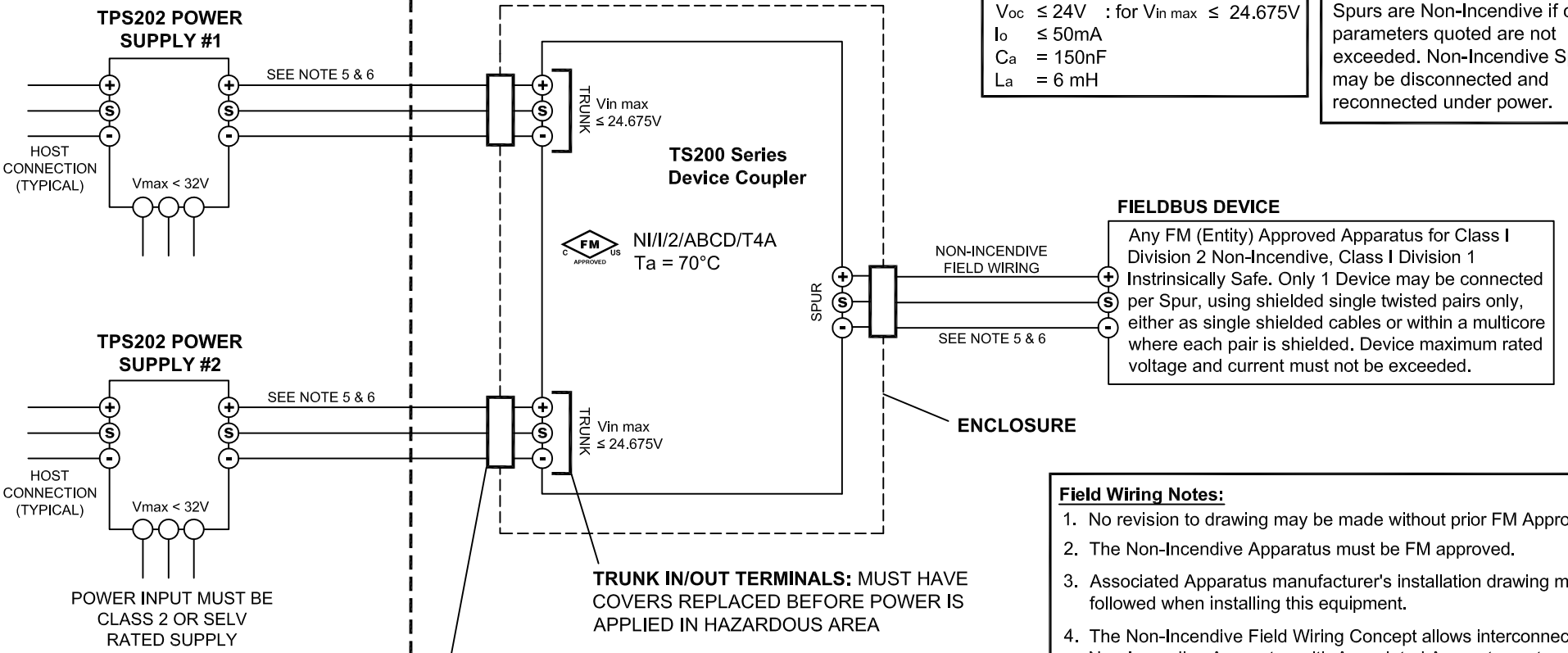
HAZARDOUS LOCATION

CLASS I, DIVISION 2, GROUPS A, B, C & D
-45°C < Ta < +70°C

INSTALLATION SHALL BE CARRIED OUT BY SUITABLY TRAINED PERSONNEL AND IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (ANSI/NFPA 70) OR CODES OF PRACTICE. USER REPAIR OF TS200 UNITS IS NOT POSSIBLE.
WARNING: SUBSTITUTION OF ANY COMPONENT MAY IMPAIR SUITABILITY FOR DIVISION 2.

Spur Connections:
V_{oc} ≤ 24V : for $V_{in\ max}$ ≤ 24.675V
I_o ≤ 50mA
C_a = 150nF
L_a = 6 mH

Non-Incendive Connections:
Spurs are Non-Incendive if cable parameters quoted are not exceeded. Non-Incendive Spurs may be disconnected and reconnected under power.



Field Wiring Notes:

1. No revision to drawing may be made without prior FM Approval.
2. The Non-Incendive Apparatus must be FM approved.
3. Associated Apparatus manufacturer's installation drawing must be followed when installing this equipment.
4. The Non-Incendive Field Wiring Concept allows interconnection of Non-Incendive Apparatus with Associated Apparatus not specifically examined in combination as a system when:
   V_{max} OR $U_i > V_{oc}$, V_t OR U_o; $C_a > C_i + C_{cable}$; $L_a > L_i + L_{cable}$
5. Installation in the U.S. should be in accordance with the National Electrical Code (ANSI/NFPA 70). Division 2 wiring method must be installed as per NEC.
6. Installation in Canada should be in accordance with the latest edition of the C22.1 Canadian Electrical Code, Part I.
7. Any external enclosure shall meet the requirements of ANSI/ISA 61010-1.

Certified Product

This is a controlled 'Related' or 'Schedule' drawing. No modifications are permitted without the notification and final approval of the Certification Engineer (related dwgs.) or the Certifying Agency (schedule dwgs.)

WARNING - EXPLOSION HAZARD
DO NOT DISCONNECT AT TRUNK TERMINALS WHEN FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT

MOORE INDUSTRIES

DO NOT SCALE DRAWING

TOLERANCES (UNLESS NOTED)			
DECIMALS	=±inch /mm		
.X	=±.1 /2.54		
.XX	=±.01 /0.25		
.XXX	=±.005/0.125		
HOLES	=±.003/0.080		
ANGLES	=±1/2°		

DRAWN	C. Whan	6/09
CHECKED	See Sht.1	
ENGINEER	See Sht.1	
SCALE	NONE	

CATEGORY: CONTROL DRAWING

TITLE: Field Installation Diagram: TS200 Device Coupler – IECEx – – Legacy [nL] ATEX –

DRAWING NUMBER: 100-100-76 SHEET 2 OF 2

REVISION: B

REVISED BY	DATE	BY	APPROVAL
SEE SHEET 1			

UNCLASSIFIED AREA | **EXPLOSIVE ATMOSPHERES**

INSTALLATION SHALL BE CARRIED OUT BY SUITABLY TRAINED PERSONNEL AND IN ACCORDANCE WITH THE LATEST EDITIONS OF THE WIRING PRACTICES FOR THE COUNTRY OF ORIGIN. USER REPAIR OF TS200 UNITS IS NOT POSSIBLE.

Spur Connections:
V_{oc} ≤ 24V : for $V_{in\ max}$ ≤ 24.675V
I_o ≤ 50mA
C_a = 150nF
L_a = 6 mH

Non-Incendive Connections: Spurs are Non-Incendive if cable parameters quoted are not exceeded. Non-Incendive Spurs may be disconnected and reconnected under power.

TPS202 POWER SUPPLY #1

HOST CONNECTION (TYPICAL)

Vmax < 32V

TRUNK

Vin max ≤ 24.675V

TS200 Series Device Coupler

II 3 G Ex nA nC [nL]* IIC T4
FM08ATEX0050X
(*Legacy Product)

IECEx Ex nA nC [nL] IIC T4
FMG 08.0007X

SPUR

FIELDBUS DEVICE

Ex n
Ex i

DEVICE MAXIMUM RATED VOLTAGE AND CURRENT MUST NOT BE EXCEEDED

TPS202 POWER SUPPLY #2

HOST CONNECTION (TYPICAL)

Vmax < 32V

TRUNK

Vin max ≤ 24.675V

CE

ENCLOSURE: EX E OR EX N OR OTHERWISE SUITABLE FOR CATEGORY 3 G D APPLICATIONS. IP54 MINIMUM FOR GAS HAZARDS. IP6X MINIMUM FOR DUST HAZARDS. MUST BE CLOSED BEFORE USE IN HAZARDOUS AREA.

POWER INPUT MUST BE CLASS 2 OR SELV RATED SUPPLY

TRUNK IN/OUT TERMINALS: MUST HAVE COVERS REPLACED BEFORE POWER IS APPLIED IN HAZARDOUS AREA

NO ACCESS TO TRUNK IN/OUT WIRING UNDER POWER IS PERMITTED UNLESS THE AREA IS KNOWN TO BE NON-HAZARDOUS BY (FOR EXAMPLE) LOCAL GAS DETECTION

CABLE FITTINGS(S): MUST MAINTAIN IP RATING OF ENCLOSURE IN SERVICE FOR ALL ENTRIES

IF ANY OTHER CIRCUITS PRESENT: CREEPAGE/CLEARANCE > 1mm BETWEEN ANY WIRING AND GROUNDED METAL AND ANY LIVE PARTS SHROUDED TO IP30 MINIMUM (IF LIVE WHEN ENCLOSURE IS OPENED).

Certified Product

This is a controlled 'Related' or 'Schedule' drawing. No modifications are permitted without the notification and final approval of the Certification Engineer (related dwgs.) or the Certifying Agency (schedule dwgs.)