



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°

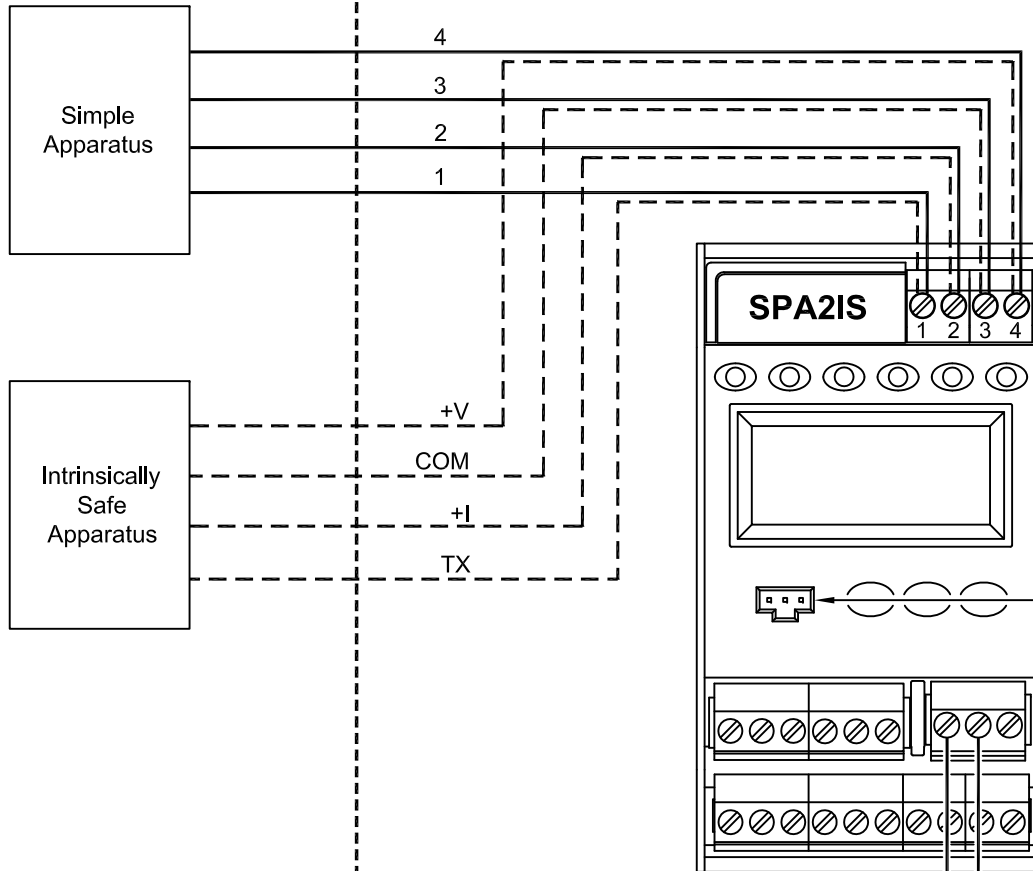
DRAWN	C. Whan	8/15
CHECKED	V. Garcia	8/15
ENGINEER	J. Decastro	8/15
SCALE	NONE	

CATEGORY CONTROL DRAWING
 TITLE **Installation Diagram:
 SPA2IS [DIN]
 Associated Intrinsically Safe**

DRAWING NUMBER 100-100-82 SHEET 1 of 2 REVISION A
 REVISED BY ECO 17656 DATE 9/15 BY CW APPROVAL CB
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**Hazardous Area
 Explosive Atmosphere
 Class I, Division 1 / Zone 0**

**Non-Hazardous / Un-Classified
 -OR-
 Hazardous Area / Explosive Atmosphere
 Class I, Division 2 / Zone 2**

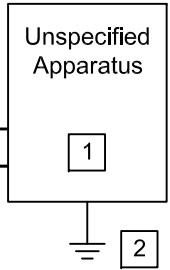


Entity Parameters TPRG (Terminals 1, 2, 3, 4)						
Gas Group	U _o (V)	I _o (mA)	P _o (mW)	C _o (μF)	L _o (mH)	Lo/Ro (mH/Ohm)
IIC (A,B)	6.51	7.34	11.94	21.94	660.88	2.98
IIB (C)	6.51	7.34	11.94	499.94	1982.63	11.92
IIA (D)	6.51	7.34	11.94	999.94	5947.88	23.83

Entity Parameters HLPGR (Terminals TX, +I, COM, +V)						
Gas Group	U _o (V)	I _o (mA)	P _o (mW)	C _o (μF)	L _o (mH)	Lo/Ro (mH/Ohm)
IIC (A,B)	29.05	107.41	727.83	0.01	3.09	0.05
IIB (C)	29.05	107.41	727.83	0.54	9.25	0.20
IIA (D)	29.05	107.41	727.83	1.89	27.74	0.40

CAUTION: The 'COM' Port must not be used in Hazardous Areas.

**-- NOTE --
 SEE SHEET 2 FOR INSTALLATION NOTES**



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.)



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TOLERANCES (UNLESS NOTED)

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.XX	=±.01 /0.25
.XXX	=±.005/0.125
HOLES	=±.003/0.080
ANGLES	=±1/2°

DRAWN	C. Whan	8/14
CHECKED	See Sht. 1	
ENGINEER	See Sht. 1	
SCALE	NONE	

CATEGORY CONTROL DRAWING

TITLE
**Installation Diagram:
 SPA2IS [DIN]
 Associated Intrinsically Safe**

DRAWING NUMBER 100-100-82 SHEET 2 of 2 REVISION **A**

REVISED BY	DATE	BY	APPROVAL
SEE SHEET 1			

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Installation Notes:

- The control room equipment (unspecified apparatus) connected to the Associated Apparatus must not generate more than 250 Vrms or Vdc, or the marked Um on the associated apparatus, whichever is less.
- Installations in the U.S. shall be in accordance with ANSI/ISA RP12.06.01 "Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations" and the latest edition of the National Electrical Code (ANSI/NFPA 70). Resistance between Intrinsically Safe Ground and earth ground must be less than 1.0 Ohm.
- Installation in Canada shall be in accordance with the latest edition of the C22.1 Canadian Electrical Code, Part I.
- Installation in Europe shall be in accordance with the latest editions of the wiring practices for the country of origin and EN 60079-14.
- Installation for IECEx certification shall be in accordance with the latest editions of the wiring practices for the country of origin.
- All field wiring shall be rated +90°C.
- No revision is allowed to this drawing without prior FM Approval.
- The Entity Concept allows interconnection of associated apparatus and intrinsically safe apparatus when the following is true: $U_o \leq U_i$, $I_o \leq I_i$, $P_o \leq P_i$, $C_o \geq C_i + C_{cable}$; $L_o \geq L_i + L_{cable}$.
- The 'COM' port MUST NOT be used in the Hazardous Area.

-- WARNING --
 Substitution of components may impair Intrinsic Safety.
 To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.

Where English is not a language of the Country in which the equipment is being used, please apply to Moore Industries International, Inc. (MII) for a suitable translation.

Installation may only be carried out by suitably trained personnel and in accordance with national wiring regulations or codes of practice.

Certified Product

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