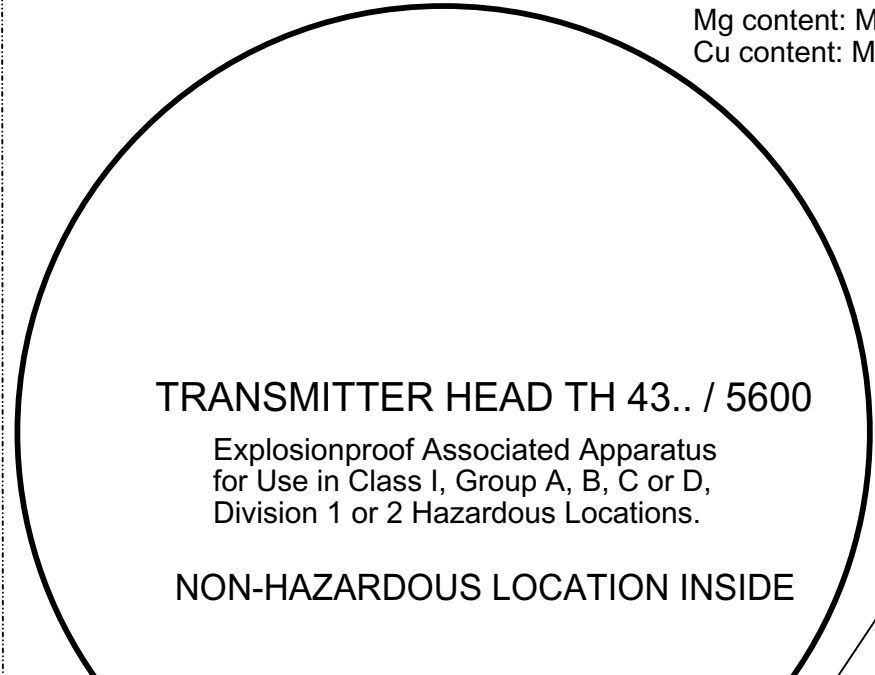


NON-HAZARDOUS LOCATION

HAZARDOUS LOCATION

HOUSING MATERIAL: AISi10MgWa
Mg content: Max. 5% by weight
Cu content: Max. 20% by weight.

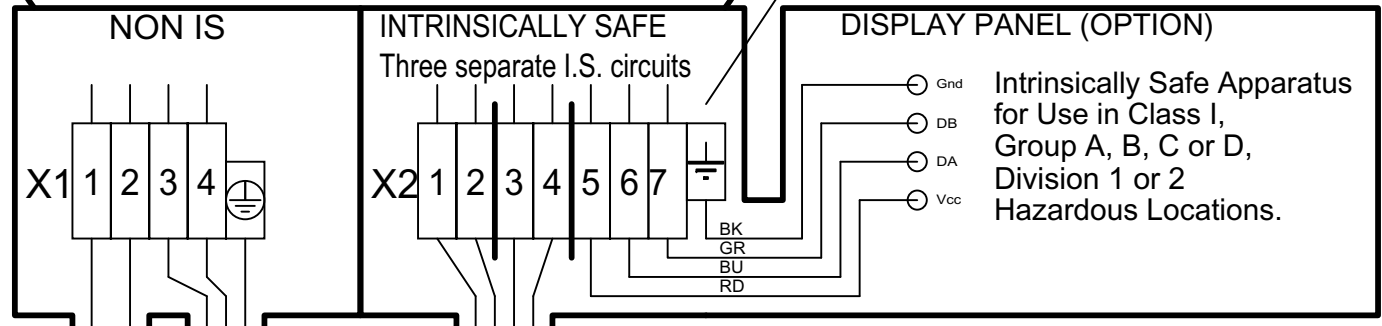
ISSUE	MODIF. ORDER NO.	WEEK	ISSUE	MODIF. ORDER NO.	WEEK	ISSUE	MODIF. ORDER NO.	WEEK
1	SME-3036	0216	2	SME-5617	0707	3	SME-7118	1143



FM Approved Product.
No revisions must be made to this drawing without prior Factory Mutual authorization.

The Entity concept allows interconnection of intrinsically safe apparatus, not specifically examined in combination as a system, when the Approved values of Voc (or Vt), Isc (or It) and Po for the associated apparatus are less than or equal to Vmax, Imax and Pmax for the intrinsically safe apparatus, and the Approved values of Ca and La for the associated apparatus are greater than Ci + cable capacitance and Li + cable inductance.

I.S. DISPLAY OUTPUT (OPTION)	
GAS GROUP	Vcc together with DA and DB
A & B	Voc = 7.84 V, Isc = 386 mA, Po = 0.678W, Ca = 9.3 µF, La = 0.239 mH
C	Voc = 7.84 V, Isc = 386 mA, Po = 0.678W, Ca = 130 µF, La = 0.95 mH
D	Voc = 7.84 V, Isc = 386 mA, Po = 0.678W, Ca = 1000 µF, La = 1.9 mH



SECONDARY OUTPUT (OPTION)		
GAS GROUP	ALT. 1: Note 2 PASSIVE CURRENT LOOP	ALT. 2: Note 2 ACTIVE CURRENT LOOP
A & B	Vmax = 30 V, Imax = 300 mA, Ci = 0 µF, Li = 0 mH	Voc = 23.1 V, Isc = 125.7 mA, Po = 0.726 W, Ca = 0.14 µF, La = 2.2 mH
C	Vmax = 30 V, Imax = 300 mA, Ci = 0 µF, Li = 0 mH	Voc = 23.1 V, Isc = 125.7 mA, Po = 0.726 W, Ca = 1.0 µF, La = 8.8 mH
D	Vmax = 30 V, Imax = 300 mA, Ci = 0 µF, Li = 0 mH	Voc = 23.1 V, Isc = 125.7 mA, Po = 0.726 W, Ca = 3.67 µF, La = 17.6 mH

NON IS PRIMARY OUTPUT

HART/4-20mA (Note 2) or TRL2 Bus (TM 40 option) or Profibus DP (AA 40 option) or Foundation Fieldbus (FF 43 option)

POWER SUPPLY

Nominal Input: 24-240 V DC/AC (0-60 Hz) max. 10 W. Internal fuse-link: T 2.5A L 50V. Installation Category III.

Shall be connected to conduit system

I.S. PRIMARY OUTPUT (OPTION)			
GAS GROUP	ALT. 1: Note 2 PASSIVE CURRENT LOOP	ALT. 2: Note 2 ACTIVE CURRENT LOOP	ALT. 3: FOUNDATION FIELDBUS
A & B	Vmax = 30 V, Imax = 300 mA, Ci = 0 µF, Li = 0 mH	Voc = 23.1 V, Isc = 125.7 mA, Po = 0.726 W, Ca = 0.14 µF, La = 2.2 mH	Vmax = 30 V, Imax = 300 mA, Pmax = 1.3 W, Ci = 0 µF, Li = 0 mH
C	Vmax = 30 V, Imax = 300 mA, Ci = 0 µF, Li = 0 mH	Voc = 23.1 V, Isc = 125.7 mA, Po = 0.726 W, Ca = 1.0 µF, La = 8.8 mH	Vmax = 30 V, Imax = 300 mA, Pmax = 1.3 W, Ci = 0 µF, Li = 0 mH
D	Vmax = 30 V, Imax = 300 mA, Ci = 0 µF, Li = 0 mH	Voc = 23.1 V, Isc = 125.7 mA, Po = 0.726 W, Ca = 3.67 µF, La = 17.6 mH	Vmax = 30 V, Imax = 300 mA, Pmax = 1.3 W, Ci = 0 µF, Li = 0 mH

Maximum nonhazardous location voltage: 250 Vrms. Associated apparatus connected to the nonintrinsically safe terminals must not use or generate more than 250 Vrms.

WARNING – Potential Electrostatic Charging Hazard – The enclosure is constructed from plastic. To prevent the risk of electrostatic sparking the plastic surface should only be cleaned with a damp cloth.

WARNING – The apparatus enclosure contains aluminum and is considered to constitute a potential risk of ignition by impact or friction. Care must be taken into account during installation and use to prevent impact or friction.

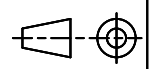
NOTE 3: A cable gland with integral cable shield connection may be fitted instead of a conduit pipe. A shielded cable is required for specified EMC performance.

NOTE 2. Current loop alternative options.
1: Passive Current Loop. Voltage compliance: 7-30 V.
2: Active Current Loop. Max. load: 300 Ohm.

NOTE 1. Installations in the USA shall be in accordance with the National Electric Code (ANSI/NFPA 70) and ANSI/ISA-RP12.6

9150074-994	ISSUED BY	WEEK	PRODUCT CODE		TITLE	
	GU-MK	0141	TR PRO			
	APPROVED BY	WEEK	DOC. TYPE	FILE	DWG NO.	
	GP-HN	0141	6	OrCAD		
ALL DIMENSIONS ARE IN MILLIMETRES. TOLERANCES, UNLESS OTHERWISE STATED:			FINISH, UNLESS OTHERWISE STATED:		ISSUE	
					SHEET	
					9150074-994	
					3	
					1 / 1	
					The copyright/ownership of this document is and will remain ours. The document must not be used without our authorization or brought to the knowledge of a third party. Contravention will be prosecuted.	
					Rosemount Tank Radar AB, Sweden	

ROSEMOUNT



1 ST ANGLE

SCALE

2012-01-03 Electronic Master PRINTED COPIES ARE UNCONTROLLED