Measurement Loop
Hazardous Area Location

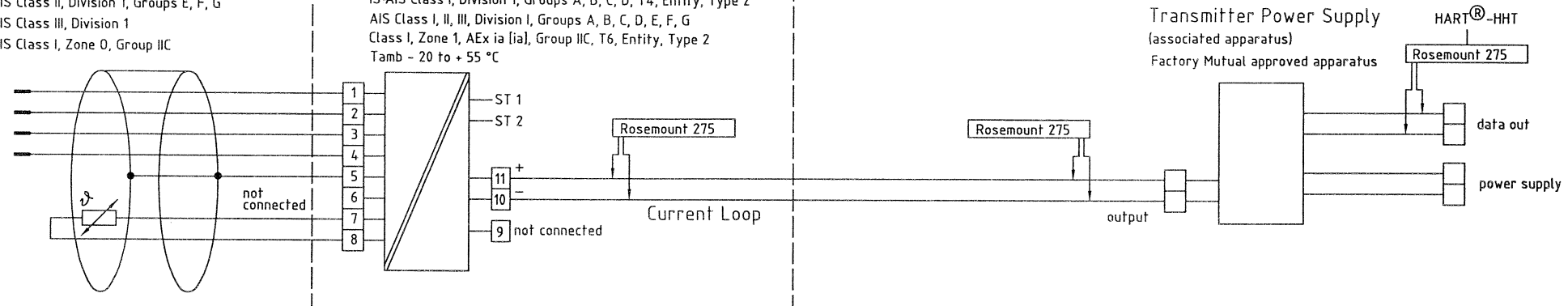
IS Class I, Division 1, Groups A, B, C, D
IS Class II, Division 1, Groups E, F, G
IS Class III, Division 1
IS Class I, Zone 0, Group IIC

Hazardous Location Class I, Div 1

2-Wire Transmitter SI 792X C
(intrinsically safe apparatus)

IS AIS Class I, Division 1, Groups A, B, C, D, T4, Entity, Type 2
AIS Class I, II, III, Division I, Groups A, B, C, D, E, F, G
Class I, Zone 1, AEx ia [ia], Group IIC, T6, Entity, Type 2
Tamb - 20 to + 55 °C

Non-Hazardous Location



Entity Parameters:
Terminals 1, 2, 3, 4, 5, 6, 7 and 8

V_t, U_o = 10 V; I_t, I_o = 146 mA; P_t, P_o = 365 mW
Class I, Division 1, Groups A & B — Class I, Zone 1, IIC
C_a, C_o = 3 µF; L_a, L_o = 1.6 mH
Class I & II, Division 1, Group C — Class I, Zone 1, IIB
C_a, C_o = 9 µF; L_a, L_o = 7 mH
Class I, II, III Division 1, Group D — Class I, Zone 1, IIA
C_a, C_o = 24 µF; L_a, L_o = 13 mH

Entity Parameters:
Terminals 10 and 11

V_{max}, U_i = 30 V C_i = 32.4 nF
I_{max}, I_i = 100 mA L_i = 240 µH
P_{max}, P_i = 0.8 W

Conductivity-Measuring Loop
Entity Parameters:
Terminals 1, 2, 3, 4, 5 and 6

V_t, U_o = 10 V; I_t, I_o = 143 mA; P_{max}, P_o = 357 mW
Class I, Division 1, Groups A & B — Class I, Zone 1, IIC
C_a, C_o = 3 µF; L_a, L_o = 1.6 mH
Class I & II, Division 1, Groups C & E — Class I, Zone 1, IIB
C_a, C_o = 9 µF; L_a, L_o = 7 H
Class I, II, III Division 1, Groups D, F & G — Class I, Zone 1, IIA
C_a, C_o = 24 µF; L_a, L_o = 13 mH

HAZARDOUS LOCATION

Suitable for CLASS I, DIV 2, GRP A, B, C, D, T4, Type2
when powered by V_{oc}, V_t = 30 V, I_{sc}, I_t = 100 mA

Substitution of components may impair intrinsic safety and the suitability for Class I, DIV 2

Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous

Temp-Measuring Loop
Entity Parameters: Terminals 7 and 8

V_{oc}, U_o = 5 V; I_{sc}, I_o = 3 mA; P_{max}, P_o = 4 mW
Class I, Division 1, Groups A & B — Class I, Zone 1, IIC
C_a, C_o = 2000 µF; L_a, L_o = 1 H
Class I & II, Division 1, Groups C & E — Class I, Zone 1, IIB
C_a, C_o = 6000 µF; L_a, L_o = 1 H
Class I, II, III Division 1, Groups D, F & G — Class I, Zone 1, IIA
C_a, C_o = 16000 µF; L_a, L_o = 1 H

NOTES :

1: $V_{max}, U_i > V_{oc}, V_t$, or U_o $I_{max}, I_i > I_{sc}, I_t$, or I_o $P_{max} > P_o$
$C_i + C_{cable} < C_a$ or C_o $L_i + L_{cable} < L_a$ or L_o

2: Installation must be in accordance with the National Electrical Code

3: Associated apparatus must be FMRC Approved and must be used in an FMRC Approved configuration. Use of the Rosemount Model 275 Communicator in Zones is not an FMRC Approved configuration. The control drawing for the associated apparatus must be followed when installing this equipment.

4: Control equipment connected to the associated apparatus must not use or generate more than 250 V.

5: The intrinsically safe equipment connecting to 1, 2, 3, 4, 5, 6 and 7, 8 must be FMRC Approved or be simple apparatus (a device which will neither generate nor store more than 1.2 V, 0.1 A, 25 mW or 20 mJ).

6: No revisions to drawing without prior FMRC Approval.

7: Use of the Rosemount Model 275 Communicator is for Division use only, see note 3. When using the Rosemount Model 275 Communicator in the loop between the associated apparatus and the SI 792X C 2-Wire Transmitter, the maximum loop inductance must be less than the marked La of the associated apparatus to account for the Isc from the Model 275 Communicator. Refer to the Rosemount Installation Drawing 00275-0081 to determine the allowable loop inductance.

HACH

Verteiler: FUL (2x)					Zul. Abweichungen für Maße ohne Toleranzangabe ISO 2768 - m	Oberfläche	Maßstab
							Halbzeug
						Datum / Name	Benennung: control drawing FM SI 792X C
					Bearb.	05.12.06 dam	
					Gepr.(KON)		
					Freigabe(FGL)	6.12.06	
					Schutzvermerk nach ISO 16016 beachten		Zeichnungsnummer: 194.220-220
Nr.	AE	Datum	Bearbeiter	FGL KON			Ungültig ab: / Ersetzt durch: