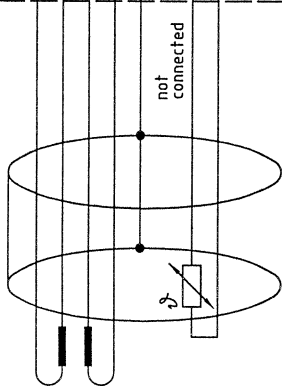
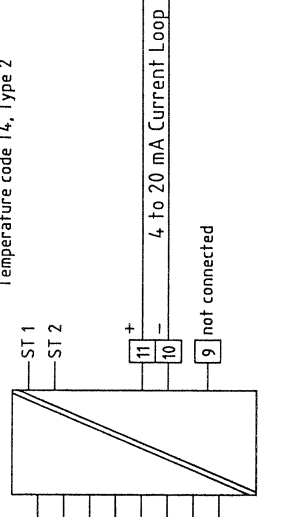


Measurement Loop
Hazardous Area Location
 IS Class I, Division 1, Groups A, B, C, D
 IS Class I, Zone 0, Group IIC



Electrodeless Conductivity Sensor
 see Note 8 and 9

Hazardous Location Class I, Div 1 / Zone 1
2-Wire Transmitter
 SI 792X E
 SI 792X T
 Class I, Division 1, Groups A, B, C and D
 Ex ib [ia] IIC
 Class I, Division 2, Groups A, B, C and D
 Ex nAL [L] IIC
 Temperature code T4, Type 2



Entity Parameters: Terminals 10/11
 with HART® Communication: Terminals 10/11
 Interface inputs ST1, ST2
 $V_{max, U_i} = 30\text{ V}$ $I_{max, I_i} = 100\text{ mA}$ $P_{max, P_i} = 800\text{ mW}$
 $C_i = 32.4\text{ nF}$ $L_i = 24.0\text{ }\mu\text{H}$
 with HART® Communication
 $C_i = 0.103\text{ }\mu\text{F}$

HAZARDOUS LOCATION
 Suitable for CLASS I, DIV 2, GRP A, B, C, D, T4,
 when powered by $V_{oc}, U_o = 30\text{ V}$, $I_{sc}, I_o = 100\text{ mA}$
 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

Conductivity Measuring Loop

Terminals	U_o, V_{oc}	I_o, I_{sc}	Po	Co, Ca	L_o, L_a
1, 2, 3, 4, 5, 6					
IIC (GRP A, B)	9V	11mA	139mW	4 μF	1.5mH
IIB (GRP C)	9V	11mA	139mW	12 μF	6mH
IIA (GRP D)	9V	11mA	139mW	32 μF	12mH

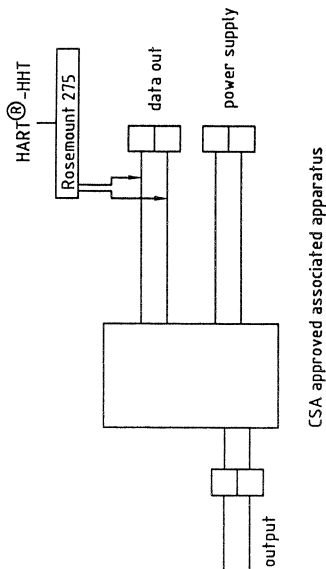
Temperature Measuring Loop

Terminals	U_o, V_{oc}	I_o, I_{sc}	Po	Co, Ca	L_o, L_a
7, 8					
IIC (GRP A, B)	5V	3.5mA	5mW	100 μF	IH
IIB (GRP C)	5V	3.5mA	5mW	300 μF	IH
IIA (GRP D)	5V	3.5mA	5mW	800 μF	IH

All Combined Outputs

Terminals	U_o, V_{oc}	I_o, I_{sc}	Po	Co, Ca	L_o, L_a
1, 2, 3, 4, 5, 6, 7, 8					
IIC (GRP A, B)	9V	114.5mA	144mW	4 μF	1.5mH
IIB (GRP C)	9V	114.5mA	144mW	12 μF	6mH
IIA (GRP D)	9V	114.5mA	144mW	32 μF	12mH

Non-Hazardous Location
Transmitter Power Supply
 (associated apparatus)



CSA approved associated apparatus

NOTES :

- $V_{max, U_i} > V_{oc}, U_o$
 $C_i + C$ cable $< C_a$ or C_o
 $I_{max, I_i} > I_{sc}, I_o$
 $L_i + L$ cable $< L_a$ or L_o
 $P_{max, P_i} > P_o$
- Installation must be in accordance with the Canadian Electric Code - Part 1
- Associated apparatus must be CSA Approved and must be used in an CSA Approved configuration.
- The control drawing for the associated apparatus must be followed when installing this equipment.
- Control equipment connected to the associated apparatus must not use or generate more than 250 V.
- The intrinsically safe equipment connecting to 1, 2, 3, 4, 5, 6 and 7, 8 must be CSA 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).
- No revisions to drawing without prior CSA Approval.
- The Rosemount Model 275 Communicator must only be used on the non-hazardous side of the barrier/transmitter power supply
- Transmitter SI 792X E, for use with sensors 3705E2T, 3706E2T, 3708E2T, 3725E2T, 3726E2T, 3727E2T, 3728E2T
- The Sensors should only be used in solutions with a conductivity $> 1\text{ nS/cm}$

HACH

Verleiher: FÜL (Zs)		Oberfläche		Meßstab	
Zul. Abweichungen für Maße ohne Toleranzangabe		Name		Hubzeug	
ISO 2768 - m		Datum		Benennung	
Bearb. 29.01.07 d(am)		Name		control drawing CSA	
Bepr.(KON)		Freigabe/FGL		SI 792X E, SI 792X T	
Schutzvermerk nach ISO 8006 beachten		Zeichnungsnummer		194.320-240	
Nr. AE	Datum	Bereiber Fg. KON	Ungültig durch:		
			Ersetzt durch:		