

**For use in Canada**

Hazardous (Classified) Location

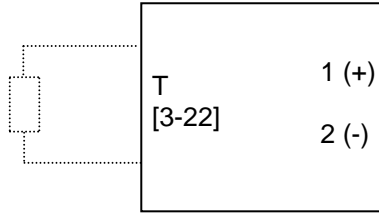
IS (Entity) Class I, Division 1, Groups C, D  
or Class I, Zone 1, Ex ia IIB T4 Gb

Nonhazardous Location

Endress+Hauser Yamanashi Co.,Ltd.  
NMT539-70.... (cFM)

Associated apparatus

Temperature measurement circuit (not include in NMT539-70....; Converter only version)



Supply and Interface circuits

Entity and Nonincendive Field Wiring Parameters

prothermo NMT 539-70cdefghij  
for terminals 1 (+), 2 (-)

$U_i = V_{max} = 30 \text{ V}$   
 $I_i = I_{max} = 120 \text{ mA}$   
 $P_i = P_{max} = 1 \text{ W}$   
 $C_i = 6.6 \text{ nF}, \quad L_i = 48 \text{ } \mu\text{H}$

$U_o = V_{oc} \leq 30 \text{ V}$   
 $I_o = I_{sc} \leq 120 \text{ mA}$   
 $P_o = P_{max} \leq 1 \text{ W}$   
 $C_a \geq 6.6 \text{ nF} + C_{cable}$   
 $L_a \geq 48 \text{ } \mu\text{H} + L_{cable}$

for terminals T[3-22] (temperature measurement circuit)

$U_o = V_{max} = 8.6 \text{ V}$   
 $I_o = I_{max} = 71 \text{ mA}$   
 $P_o = P_{max} = 153 \text{ mW}$   
 $C_o = 9.5 \text{ } \mu\text{F}, \quad L_o = 7.5 \text{ mH}$

Notes

- The nonintrinsically safe terminals (supply and interface circuit) must not be connected to any device that uses or generates more than 250 V rms or dc unless it has been determined that the voltage has been adequately isolated.
- The installation must be in accordance with the Canadian Electrical Code CAN/CSA C22.1.
- Entity approved associated apparatus necessary. Used in a configuration where associated apparatus  $U_o$  does not exceed  $U_i$  of the prothermo NMT539-70... and associated apparatus  $I_o$  does not exceed  $I_i$  of the prothermo NMT539-70...  $C_i$  of the prothermo NMT539-70... plus capacitance of interconnecting wiring may not exceed associated apparatus  $C_o$ .  $L_i$  of the prothermo NMT539-70... plus inductance of interconnecting wiring may not exceed associated apparatus  $L_o$ .
- For use in Class I, Division 2 location, rigid metal conduit is required if not installed in accordance with the nonincendive field wiring principles outlined with the Canadian Electrical Code CAN/CSA C22.1.

Warning:

- Substitution of components may impair intrinsic safety. For installation, maintenance or operation instructions see Instruction Manual.
- Don't modify parts and circuits of this instrument.

REV	DATE	CONTENTS	REVISED	(基) APPROVED	SCALE	ESTABLISH DATE		
				/	X	22 Mar. 2004		
3	25 Jan. 17	"-80..." to -70...(cFM)	H.Mizokuni			APPROVED	CHECK	DESIGN
2	01 Jan. 08	Company name change	H.Mizokuni			(基)	/	H. Mizokuni
1	04 Sep 07	Change Ci value 5.3 to 7.9	H.Mizokuni					
Endress+Hauser		TITLE Control drawing for NMT539-70...(cFM) (Converter only version)			1 / 1			