

**SPECIFICATIONS:**

(SPECIFICATIONS AT 25°C (77°F) AND NOMINAL VOLTAGE UNLESS OTHERWISE NOTED.)

**MECHANICAL:**

WETTED MATERIALS: 316 st/st  
 WEIGHT: 1.40 LBS. (0.63 kg)  
 ENCLOSURE: TYPE 380 ALUMINUM; EPOXY POWDER COATED;  
 SHALL NOT CONTAIN, BY MASS MORE THAN 6% OF MAGNESIUM.

**ELECTRICAL:**

**ELECTRICAL CONNECTION:**

24 VDC POWER SUPPLY: 3 POSITION TERMINAL BLOCK  
 (BROWN) 12-22 AWG WIRE  
 4-20 mA LOOP: 2 POSITION TERMINAL BLOCK  
 (GREEN) 14-26 AWG WIRE  
 SWITCH OUTPUTS: 5 POSITION TERMINAL BLOCK  
 (GRAY) 14-22 AWG WIRE  
 RATING: 4-20 mA OUTPUT, 10-36 VDC @ 24 mA MAX

$$R_{L(max)} = \frac{(V_{in} - 9)}{0.024}$$

**SWITCH OUTPUT RATINGS:**

8W2D42xxx SW1: 75-250 VAC, 1.5 A MAX. CONT.,\*\*  
 SW2: 75-250 VAC, 1.5 A MAX. CONT.,\*\*  
 82WD44xxx SW1: 75-250 VAC, 1.5 A MAX. CONT.,\*\*  
 SW2: 140 VAC/DC, 0.6 A MAX. CONT.,\*  
 8W2D45xxx SW1: 140 VAC/DC, 0.6 A MAX. CONT.,\*  
 SW2: 140 VAC/DC, 0.6 A MAX. CONT.,\*

\* 2 A PEAK (100 mSec). DERATE AT 8% PER 10°C  
 OR 4.6% PER 10°F, NO MIN. LOAD  
 \*\* 50 A PEAK (100 mSEC), DERATE AT 8% PER 10°C  
 OR 4.6% PER 10°F, MIN. LOAD 50mA

**OPERATING:**

**OVERALL ACCURACY:**

±1% OF MAX. OPERATING RANGE VALUE

**SET POINT REPEATABILITY:**

±0.2% OF MAX. OPERATING RANGE VALUE

**LONG TERM STABILITY:**

±0.25% OF RANGE PER YEAR, MAX.

**AMBIENT TEMPERATURE:**

OPERATING: -40°C TO 80°C (-40°F TO 176°F)

LCD VISIBILITY TEMP: -12°C TO 80°C (10°F TO 176°F)

STORAGE: -40°C TO 85°C (-40°F TO 185°F)

**MEDIA TEMPERATURE:**

-40°C TO 125°C (-40°F TO 257°F)

REFER TO NAMEPLATE FOR SPECIFIC OPERATING TEMP. RANGE.

**APPROVALS:**

**NONINCENDIVE APPLICATIONS:**

UL LISTED, cUL CERTIFIED

CLASS I, DIVISION 2, GROUPS A, B, C, & D;

CLASS II, DIVISION 2, GROUPS F & G;

CLASS III;

CLASS I, ZONE 2 AEx nC IIC T4;

CLASS I, ZONE 2 Ex nC IIC T4;

T<sub>amb</sub> = -40°C TO +80°C (-40°F TO +176°F)

ENCLOSURE TYPE 4X



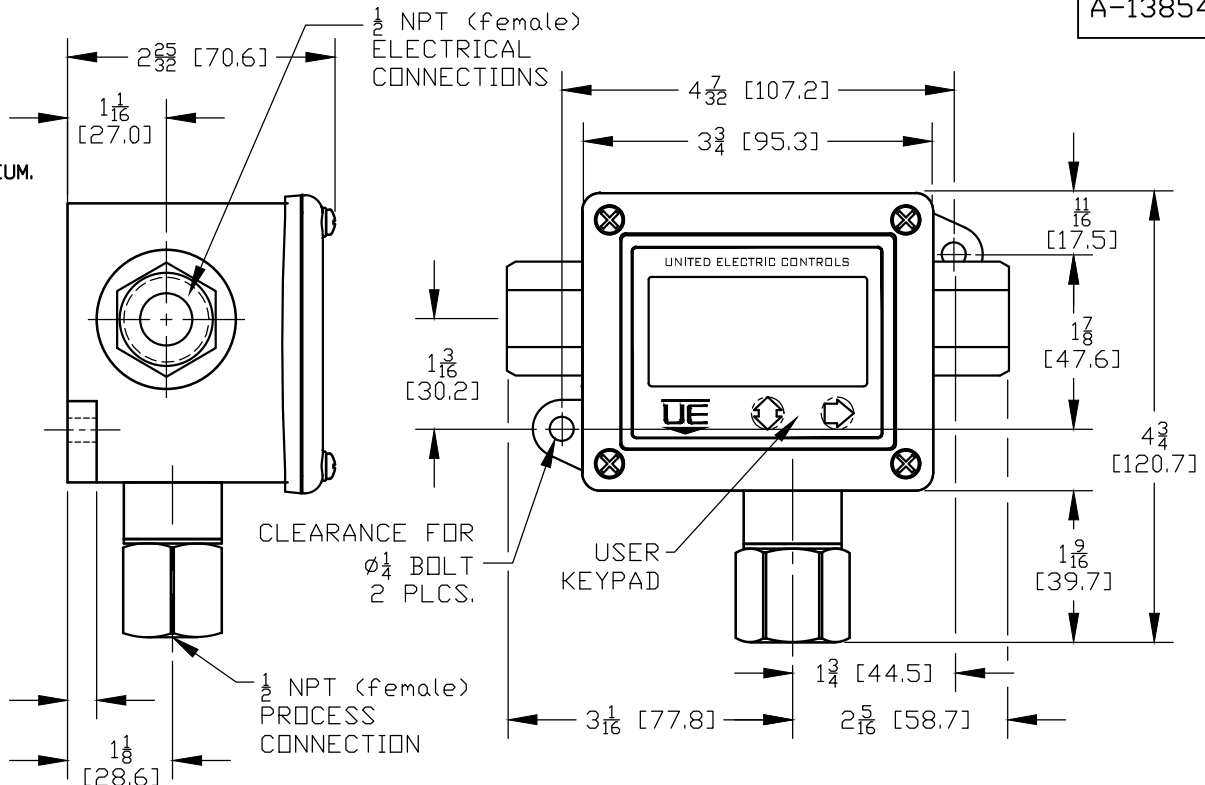
DEMKO 03 ATEX 0322281X  
 -40°C < T<sub>amb</sub> < +80°C, IP66



II 3 G EEx nL IIC T4  
 II 3 D T+130°C

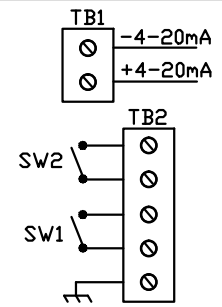
SYM	DESCRIPTION	DATE	DWN	APPD
D	ADDED MODELS P06 & P08. ECN#E4890	8-21-13	SR	SJM
C	CHANGED TERMINAL BLOCK ORIENTATION. ECN#E4119	8/8/11	MJF	DW
B	REVISED TITLE BLOCK INFO. ECN#E2723	6-24-08	SR	LK
A	FIRST ISSUE. ECN#E1487	11/22/05	PLW	D.W.

**REVISIONS**



MODEL Pxx	OPERATING RANGE				MAX. OVER PRESSURE		BURST PRESSURE	
	LOW psi	bar	HIGH psi	bar	psi	bar	psi	bar
P06	-14.7	-1	30	2,1	60	4,1	120	8,3
P08	-14.7	-1	100	6,9	200	13,8	400	27,6
P10	0	0	5	0,3	10	0,7	20	1,4
P11	0	0	15	1,0	30	2,1	60	4,1
P12	0	0	30	2,1	60	4,1	120	8,3
P13	0	0	50	3,4	100	6,9	200	13,8
P14	0	0	100	6,9	200	13,8	400	27,6
P15	0	0	300	20,7	600	41,4	1200	82,7
P16	0	0	500	34,5	1000	68,9	2000	137,9
P17	0	0	1000	68,9	2000	137,9	4000	275,8
P18	0	0	3000	206,8	6000	413,7	12000	827,4
P19	0	0	4500	310,3	9000	620,6	18000	1241,1

**TERMINAL BLOCK**



ORIGINAL DATE	11/22/05
DRWN	PLW
CHKD	A.B.
APPD	D.W.

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES

TITLE  
 ONE SERIES  
 8W2DxxPxx  
 PRESSURE  
 DUAL SWITCH  
 4-20mA OUTPUT

SCALE 1:2



UNITED ELECTRIC  
 CONTROLS COMPANY  
 WATERTOWN \* MASSACHUSETTS

DF001D

DWG NO  
 A-13854

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