



No. 2016-055180-01(1/2)

안전인증서

Certificate of Safety

United Electric Controls

180 Dexter Avenue Watertown, MA 02471, USA

The following product manufactured by the above company has been authorized for the use of safety certification mark as the product has satisfied the safety and health requirements under Article 34 of OCCUPATIONAL SAFETY AND HEALTH ACT and paragraph 4 of Article 58-4 of ENFORCEMENT ORDINANCE OF the same ACT.

Electrical Equipment

Electronic pressure and temperature switches

Model(Marking) / Certificate No.

1XSWHL, 1XSWHH(Ex d IIC T3/T5) / 16-KA4BO-0539X

Applied standards

Announcement No. 2013-54 of Ministry of Employment and Labor

Conditions of Certification

1. Manufacturing location(s)

·This certificate is valid only for the specified products produced at '180 Dexter Avenue Watertown, MA 02471, USA'

2. Description of equipment

- Flameproof type pressure and temperature switches for use in Zone 1(Gb) area
 - T3 for pressure sensor models P06 ~ P16 only
- Electrical rating
 - 1XSWHL: (70 ~ 240) V, 10 A Max.
 - 1XSWHH: (24 ~ 280) V, 10 A Max.
- Ambient Temperature: $-40\text{ }^{\circ}\text{C} \leq T_a \leq +80\text{ }^{\circ}\text{C}$

3. Scope of certification: This certificate is valid only for the models as Annex.

4. Special conditions for safe use

·See special conditions for safe use on IECEx Certificate (IECEx UL 08.0017X issue No.6) for the details.

5. Details of certificate change: None.

6. Details of others

- Manufacturer shall take the responsibility including maintaining quality requirements for the certified products, receiving factory surveillance and informing any changes to the certified products.
- This certificate shall be used with the related IECEx certificate (IECEx UL 08.0017X issue No.6).

Date of Issue: 2016-11-11

한국산업기술시험원장





No. 2016-055180-01(2/2)

Conditions of Certification

[Annex] Scope of certification

For Series 1XSWHL, 1XSWHH:

$\frac{1X}{I}$ $\frac{SW}{II}$ $\frac{HL}{III}$ $\frac{P}{VI}$ $\frac{10}{VII}$ $\frac{M041}{VIII}$

I - Series Designation
1X - 1X Series

II - Communication
SW - Switch output

III - Output
HL - 70 - 240 VAC/VDC 10 A max. De-rate 1Ma per 1°C > 25°C
HH - 24 - 280 VAC/VDC 10 A max. De-rate 8% per 10°C > 25°C

IV - Sensor Type
P - Pressure Sensor
T - Temperature Sensor
K - Differential Pressure Sensor

VI - Sensor Model
Pressure Sensors:
06 - 14.7 to 30 psi
08 - 14.7 to 100 psi
10 - 0 to 5 psi
11 - 0 to 15 psi
12 - 0 to 30 psi
13 - 0 to 50 psi
14 - 0 to 100 psi
15 - 0 to 300 psi
16 - 0 to 500 psi
17 - 0 to 1000 psi
18 - 0 to 3000 psi
19 - 0 to 4500 psi
20 - 0 to 6000 psi

Temperature Sensors:
L1 - 4 in. Length Local Mount
L2 - 6 in. Length Local Mount
L3 - 10 in. Length Local Mount
R1 - 6 ft. Remote Probe Low Temp
RC - Custom Length Remote Probe Low Temp
H1 - 6 ft. Remote Probe High Temp
HC - Custom Length Remote Probe High Temp
C1 - 6 ft. Remote Probe Low Temp
CC - Custom Length Remote Probe Low Temp

Differential Pressure Sensors:
10 - 0 to 5 psid
11 - 0 to 50 psid
12 - 0 to 100 psid
13 - 0 to 200 psid

VII - Options
M-041 - Dual Seal Adapter