



国家防爆

Electrical Apparatus for Explosive Atmospheres

# CERTIFICATE OF CONFORMITY

Cert. No.: CNEx15.2541X

**Manufacturer** United Electric Controls Company  
(Address: 180 Dexter Avenue, Watertown, MA 02471 USA)

**Name of Product** Temperature operated switch

**Type of Product** 120, 121, 122, 820, 822

**Marking** Ex d IICT6 Gb  
Ex tD A21 T85°C IP66

**Standard** —

**Drawing No.** —

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

- GB3836.1-2010 Explosive atmospheres Part 1: Equipment-General requirements
- GB3836.2-2010 Explosive atmospheres Part 2: Equipment protection by flameproof enclosures "d"
- GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust -Part 1: General requirements
- GB12476.5-2013 Electrical apparatus for use in the presence of combustible dust Part 5: Protection by enclosures "tD"

**Note** See Annex(3 pages).

**Valid Date** From Aug 14, 2015 to Aug 13, 2020

**Issue Date** Aug 14, 2015

**Director**



CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE  
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China  
Tel: 0377-63258564 Fax: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)



Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

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1. This product have obtained IECEx certificate, Cert. No.: IECEx UL 03.0001X.

2. Product description:

The temperature operated switches consist of a die-cast aluminum switch housing containing a single or dual snap switch, which is operated by an operating rod forming a joint with the enclosure. The electrical wires between the snap switch and the one or two sets of terminal blocks are permanently mounted by the manufacturer and can not be replaced.

Blanking elements from factory have been tested for Flameproof "d" and Dust "tD" with the enclosures as an assembly and carry no markings.

3. Service temperature:

-40 °C ≤ Tamb ≤ +75 °C

4. Special conditions for safe use:

1) Dimensions of flameproof joints are other than the relevant minimum or maximum specified in tables 1 through 2 of GB3836.2-2010. Temperature operated switches are to be marked with an "X" and manufacturer's installation instructions (Drawings Nos. IMT120 and IMP120) detail the dimensions of the flameproof joints.

2) For Group III equipment, manufacturer's installation instructions (Drawing Nos. IMT120 and IMP120) provide guidance for the user to minimize the risk from electrostatic discharge.

5. Nomenclature for Type 120, 121, 122, 820 and 822 Temperature Switches:

Example:

|   |    |     |    |       |      |        |       |
|---|----|-----|----|-------|------|--------|-------|
| Q | F  | 820 | P  | 13611 | 3000 | W10015 | 12345 |
| I | II | III | IV | V     | VI   | VII    | VIII  |

I. End-User Destination

None – International/Domestic

Q – International/Domestic, Internal Reference Only

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## II. Device Calibration

None – Remote temperature sensor with temperature setting adjustment and temperature indication in a separate enclosure from the explosion-proof enclosure containing the snap switch and associated wiring.

B – Calibrated Local Temperature Sensor

C – Uncalibrated Local Temperature Sensor

E – Calibrated Remote Temperature Sensor

F – Uncalibrated Remote Temperature Sensor

## III. Type Designation

120 – Single Snap Switch with Internal Adjustment

121 – Single Snap Switch with External Adjustment

122 – Two Snap Switches with External Adjustment

820 – Single Snap Switch with External Temperature Indicator

822 – Two Snap Switches with External Temperature Indicator

## IV. Sensing Method

None – Local or Remote Temperature Sensing

E – External Temperature Indicator

P – Common Adjustment

## V. Temperature Sensor Designation

Two to five character/digit alphanumeric code indicating one of the temperature sensor models shown in the relevant Certification Drawing.

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VI. Internal Snap Switch Designation

Four-digit numeric code indicating one of the Internal Snap Switch models shown in the relevant Certification Drawing.

VII. Miscellaneous Options

Four to six character/digit alphanumeric code not affecting electrical ratings or temperature ratings of the device:

None – No options(s) employed

M430 – Cover lock option

M440 – Cover chain option

W Series – Followed by 097, 098, 099 or 100, followed by a number 1 through 15. Denotes separable well option.

VIII. Customer Specification Number

Five character/digit alphanumeric code indicating temperature range and miscellaneous options; equivalent to a customer specification code

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