



1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No: **FM24ATEX0030X**

4. Equipment or protective system:
(Type Reference and Name) **79, 83, and 84 RTD / Thermocouple Assemblies**

5. Name of Applicant: **United Electric Controls Co**

6. Address of Applicant **180 Dexter Ave, Watertown, Massachusetts 02172,
United States of America**

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

PR466472 dated 23 September 2025

9. Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014, EN 60529:1991+A1:2000+A2:2013

10. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include:



See ANNEX

13. Description of Equipment or Protective System:

Certificate issued by:

FM Approvals

24 September 2025

Certification Manager, FM Approvals Europe Ltd.

Date

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SCHEDULE

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The Style 79, 83, and 84 Series Temperature Sensor assemblies are industrial temperature sensors housed within an explosionproof enclosure (herein referred to as a Terminal head). The temperature sensors either use thermocouple measurement or resistance thermometer detection (RTD) measurement. The temperature sensor probes are 3/16 inch or 1/4 inch diameter. The thermocouple sensor probes are filled with MI material and the RTD sensor probes are powder filled and all are capped with epoxy resin cement. The Style 79, 83, and 84 Series Temperature Sensors are available in a variety of sensor configurations. The sensor configurations include various length thermocouples or RTD's, including fixed type (remote flexible type or straight type) or spring type sensor probes (with optional integral union for ease of connection / disconnection) design / constructions. These sensors are housed within single compartment terminal head enclosure.

The terminal head enclosure houses the Style 79, 83, and 84 Series Temperature Sensors. The terminal head enclosures are available as a two-piece cast aluminum housing or two piece cast stainless steel housing. The terminal head housing contains a Style 79, 83, or 84 Series Temperature Sensor and terminal block for field wiring connection. The terminal head enclosure is provided with a single field wiring entry. The entry is sized: 1/2 inch NPT, or 3/4 inch NPT depending on order. Completing the terminal head enclosure is the cover which is threaded onto the main housing and sealed with an O-ring. The effective free volume of the terminal head enclosure with Style 79, 83, and 84 Series Temperature Sensors is approximately 180cm³.

The Style 79, 83, and 84 Series Temperature Sensors process end (wet end) are constructed of the following connection and sheath materials. The Style 83 Series Temperature Sensors are designed / constructed to always be used / installed with a Thermowell. Styles 79 and 84 require the use of a thermowell for Maximum Working Pressure Rating (MWPR) higher than 7.25psi (50kPa). Thermowell is end user ordered or supplied.

Style / probe type	Connection Material	Sensor Material
79 RTD / Flexible Sensor Probe	300 Series Stainless Steel	300 Series Stainless Steel
83 Thermocouple / Spring Type Sensor Probe	300 Series Stainless Steel 303 Stainless Steel Carbon Steel	316 Stainless Steel Inconel 600
83 RTD / Spring Type Sensor Probe	300 Series Stainless Steel 303 Stainless Steel Carbon Steel	316 Stainless Steel
84 Thermocouple / Fixed Type Sensor Probe	300 Series Stainless Steel	316 Stainless Steel Inconel 600
84 RTD / Fixed Type Sensor Probe	300 Series Stainless Steel	316 Stainless Steel

Operation Temperature Ranges:

The ambient operating temperature range of the Style 79, 83, and 84 Series temperature assemblies is -40°C...+85°C

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Electrical Data:

The Style 79, 83, and 84 Series temperature sensor assemblies are (ELV) Extra Low Voltage. Power is less than 1 Watt.

Maximum Working Pressure Rating:

The Style 79, 84 Series Temperature Sensor assemblies, wet end, have a Maximum Working Pressure Rating (MWPR) of 7.25psi (50kPa). The Style 83 Series Temperature Sensor assemblies have no rating (N/A) as these always require the use of a thermowell.

Ingress Protection Ratings:

IP66, IP68 (Rated 1 meter for 1 Hour)

SEE ANNEX

14. **Specific Conditions of Use:**

See ANNEX

15. **Essential Health and Safety Requirements:**

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16. **Test and Assessment Procedure and Conditions:**

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17. **Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
24 September 2025	Original Issue.

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SCHEDULE

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ANNEX

a-b79cde Remote RTD Sensors

Equipment Ratings:

Equipment Group II Category 2 for use in Gases, II 2 G Ex db IIC T6...T1 Gb, hazardous area, with temperature class and ambient temperature range from T5...T1 (Ta = -20°C to +85°C) and T6 (Ta = -20°C to +80°C) and Equipment Group II Category 2 for use in Dust, II 2 D Ex tb IIIC T90°C...T125°C Db, hazardous area, with ambient temperature range from -40°C to +85°C

Markings:



II 2 G Ex db IIC T6...T1 Gb
T5...T1 (Ta = -20°C to +85°C)
T6 (Ta = -20°C to +80°C)
II 2 D Ex tb IIIC T90°C...T125°C Db
-40°C to +85°C

Description of Equipment:

Model Code:

a-b79cde Remote RTD Sensors

a = Customer Specification Number (Optional): Any Four to Eight Digit Numeric Code beginning with "T...". If no Customer Specification Number selected, Part number would start with code (b) Sensor Type

b = Sensor Type (RTD, 100ohm @ 0°C): RTP1 (3 wire), RTP7 (4 wire)

c = Sheath Length (in feet): L# - up to 6 digit numeric value

d = HD82 (1/2 inch NPT Process Connection x 3/4 inch NPT Conduit Connection enclosure), None (standard 1/2 inch NPT x 1/2 inch NPT connection enclosure)

e = Options Not Affecting Certifications: Any Four Digit Alpha Numeric Code

Specific Conditions of Use:

1. Flameproof joints are not intended for repair.
2. Appropriate cable, glands, and conduit seals need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
3. Potential Electrostatic Charging Hazard. Avoid Installation that could cause electrostatic build-up and only clean with a damp cloth.
4. Refer to Table 1 and Table 2 for the applicable Temperature Class / Maximum Surface Temperatures rating assigned according to assigned allowed ambient and process temperature ranges.

Table 1

Temp. Class (T-Code) Ex db	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T6	-20 to +80	-20 to +85
T5	-20 to +85	-20 to +100

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T4	-20 to +85	-20 to +135
T3	-20 to +85	-20 to +200
T2	-20 to +85	-20 to +300
T1	-20 to +85	-20 to +450

Table 2

Maximum Surface Temp. DUST	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T90C	-40 to +85	-20 to +85
T100C	-40 to +85	-20 to +100
T125C	-40 to +85	-20 to +125

5. The RTD sensor assemblies require the use of a suitably rated thermowell installed for the end use application if the process pressure rating is higher than 7.25psig.

a-b83cdefghi RTD Sensors

Equipment Ratings:

Equipment Group II Category 2 for use in Gases, II 2 G Ex db IIC T6...T1 Gb, hazardous area, with temperature class and ambient temperature range from T5...T1 (Ta = -20°C to +85°C) and T6 (Ta = -20°C to +80°C) and Equipment Group II Category 2 for use in Dust, II 2 D Ex tb IIIC T90°C...T125°C Db, hazardous area, with ambient temperature range from -40°C to +85°C

Markings:



II 2 G Ex db IIC T6...T1 Gb
T5...T1 (Ta = -20°C to +85°C)
T6 (Ta = -20°C to +80°C)
II 2 D Ex tb IIIC T90°C...T125°C Db
-40°C to +85°C

Description of Equipment:

Model Code:

a-b83cdefghi RTD Sensors

a = Customer Specification Number (Optional): Any Four to Eight Digit Numeric Code beginning with "T...". If no Customer Specification Number selected, Part number would start with code (b) Sensor Type
b = Sensor Type (RTD, 100ohm @ 0°C): RTP1, RTP6, RTP7, RTP1A, RTP1AA, RTP7A, RTP7AA, DRTP1, DRTP6, DRTP7, DRTP1A, DRTP1AA, DRTP7A, DRTP7AA
c = Connection Type: N, NU, NUN, NUNS

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d = Sheath Diameter (in inches): 6 (3/16 inch), 7 (1/4 inch)

e = Sheath Material: 3 (316 Stainless Steel)

f = Temperature Range – (Min./Max.): 2 (-45 °C to 482 °C (-50 °F to 900 °F), 3 (-45 °C to 788 °C (-50 °F to 1450 °F), 4 (-196 °C to 260 °C (-321 °F to 500 °F), 5 (-45 °C to 260 °C (-50 °F to 500 °F)

g = Sheath Length (in inches): L# - up to 6 digit numeric value

h = HD82 (1/2 inch NPT Process Connection x 3/4 inch NPT Conduit Connection enclosure), None (standard 1/2 inch NPT x 1/2 inch NPT connection enclosure)

i = Options Not Affecting Certifications: Any Four Digit Alpha Numeric Code

Specific Conditions of Use:

1. Flameproof joints are not intended for repair.
2. Appropriate cable, glands, and conduit seals need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
3. Potential Electrostatic Charging Hazard. Avoid Installation that could cause electrostatic build-up and only clean with a damp cloth.
4. Refer to Table 1 and Table 2 for the applicable Temperature Class / Maximum Surface Temperatures rating assigned according to assigned allowed ambient and process temperature ranges.

Table 1

Temp. Class (T-Code) Ex db	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T6	-20 to +80	-20 to +85
T5	-20 to +85	-20 to +100
T4	-20 to +85	-20 to +135
T3	-20 to +85	-20 to +200
T2	-20 to +85	-20 to +300
T1	-20 to +85	-20 to +450

Table 2

Maximum Surface Temp. DUST	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T90C	-40 to +85	-20 to +85
T100C	-40 to +85	-20 to +100
T125C	-40 to +85	-20 to +125

5. The RTD sensor assemblies require the use of a suitably rated thermowell installed for the end use application.

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SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0030X

a-b83cdefghij Mineral Insulated Thermocouples

Equipment Ratings:

Equipment Group II Category 2 for use in Gases, II 2 G Ex db IIC T6...T1 Gb, hazardous area, with temperature class and ambient temperature range from T5...T1 (Ta = -20°C to +85°C) and T6 (Ta = -20°C to +80°C) and Equipment Group II Category 2 for use in Dust, II 2 D Ex tb IIIC T90°C...T125°C Db, hazardous area, with ambient temperature range from -40°C to +85°C

Markings:



II 2 G Ex db IIC T6...T1 Gb
T5...T1 (Ta = -20°C to +85°C)
T6 (Ta = -20°C to +80°C)
II 2 D Ex tb IIIC T90°C...T125°C Db
-40°C to +85°C

Description of Equipment:

Model Code:

a-b83cdefghij Mineral Insulated Thermocouples

a = Customer Specification Number (Optional): Any Four to Eight Digit Numeric Code beginning with "T...". If no Customer Specification Number selected, Part number would start with code (b) Sensor Type

b = Sensor Type: MI

c = Connection Type: N, NU, NUN, NUNS

d = Sheath Diameter (in inches): 6 (3/16 inch), 7 (1/4 inch)

e = Sheath Material: 3 (316 Stainless Steel), 5 (Inconel 600)

f = Calibration: J, K, T, E, JJ, KK, TT, EE

g = Hot Junction: G (Grounded), U (Ungrounded)

h = Sheath Length (in inches): L# - up to 6 digit numeric value

i = HD82 (1/2 inch NPT Process Connection x 3/4 inch NPT Conduit Connection enclosure), None (standard 1/2 inch NPT x 1/2 inch NPT connection enclosure)

j = Options Not Affecting Certifications: Any Four Digit Alpha Numeric Code

Specific Conditions of Use:

1. Flameproof joints are not intended for repair.
2. Appropriate cable, glands, and conduit seals need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
3. Potential Electrostatic Charging Hazard. Avoid Installation that could cause electrostatic build-up and only clean with a damp cloth.
4. Refer to Table 1 and Table 2 for the applicable Temperature Class / Maximum Surface Temperatures rating assigned according to assigned allowed ambient and process temperature ranges.

Table 1

Temp. Class (T-Code) Ex db	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T6	-20 to +80	-20 to +85

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SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0030X

T5	-20 to +85	-20 to +100
T4	-20 to +85	-20 to +135
T3	-20 to +85	-20 to +200
T2	-20 to +85	-20 to +300
T1	-20 to +85	-20 to +450

Table 2

Maximum Surface Temp. DUST	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T90C	-40 to +85	-20 to +85
T100C	-40 to +85	-20 to +100
T125C	-40 to +85	-20 to +125

5. The thermocouple sensor assemblies require the use of a suitably rated thermowell installed for the end use application.

a-b84cdefgh RTD Sensors

Equipment Ratings:

Equipment Group II Category 2 for use in Gases, II 2 G Ex db IIC T6...T1 Gb, hazardous area, with temperature class and ambient temperature range from T5...T1 (Ta = -20°C to +85°C) and T6 (Ta = -20°C to +80°C) and Equipment Group II Category 2 for use in Dust, II 2 D Ex tb IIIC T90°C...T125°C Db, hazardous area, with ambient temperature range from -40°C to +85°C

Markings:



II 2 G Ex db IIC T6...T1 Gb
T5...T1 (Ta = -20°C to +85°C)
T6 (Ta = -20°C to +80°C)
II 2 D Ex tb IIIC T90°C...T125°C Db
-40°C to +85°C

Description of Equipment:

Model Code:

a-b84cdefgh RTD Sensors

a = Customer Specification Number (Optional): Any Four to Eight Digit Numeric Code beginning with "T...". If no Customer Specification Number selected, Part number would start with code (b) Sensor Type

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b = Sensor Type (RTD, 100ohm @ 0°C): RTP1, RTP6, RTP7, RTP1A, RTP1AA, RTP7A, RTP7AA, DRTP1, DRTP6, DRTP7, DRTP1A, DRTP1AA, DRTP7A, DRTP7AA

c = Sheath Diameter (in inches): 6 (3/16 inch), 7 (1/4 inch)

d = Sheath Material: 3 (316 Stainless Steel)

e = Temperature Range – (Min./Max.): 2 (-45 °C to 482 °C (-50 °F to 900 °F), 3 (-45 °C to 788 °C (-50 °F to 1450 °F), 4 (-196 °C to 260 °C (-321 °F to 500 °F), 5 (-45 °C to 260 °C (-50 °F to 500 °F)

f = Sheath Length (in inches): L# - up to 6 digit numeric value

g = HD82 (1/2 inch NPT Process Connection x 3/4 inch NPT Conduit Connection enclosure), None (standard 1/2 inch NPT x 1/2 inch NPT connection enclosure)

h = Options Not Affecting Certifications: Any Four Digit Alpha Numeric Code

Specific Conditions of Use:

1. Flameproof joints are not intended for repair.
2. Appropriate cable, glands, and conduit seals need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
3. Potential Electrostatic Charging Hazard. Avoid Installation that could cause electrostatic build-up and only clean with a damp cloth.
4. Refer to Table 1 and Table 2 for the applicable Temperature Class / Maximum Surface Temperatures rating assigned according to assigned allowed ambient and process temperature ranges.

Table 1

Temp. Class (T-Code) Ex db	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T6	-20 to +80	-20 to +85
T5	-20 to +85	-20 to +100
T4	-20 to +85	-20 to +135
T3	-20 to +85	-20 to +200
T2	-20 to +85	-20 to +300
T1	-20 to +85	-20 to +450

Table 2

Maximum Surface Temp. DUST	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T90C	-40 to +85	-20 to +85
T100C	-40 to +85	-20 to +100
T125C	-40 to +85	-20 to +125

5. The RTD sensor assemblies require the use of a suitably rated thermowell installed for the end use application if the process pressure rating is higher than 7.25psig.

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SCHEDULE

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a-b84cdefghi Mineral Insulated Thermocouples

Equipment Ratings:

Equipment Group II Category 2 for use in Gases, II 2 G Ex db IIC T6...T1 Gb, hazardous area, with temperature class and ambient temperature range from T5...T1 (Ta = -20°C to +85°C) and T6 (Ta = -20°C to +80°C) and Equipment Group II Category 2 for use in Dust, II 2 D Ex tb IIIC T90°C...T125°C Db, hazardous area, with ambient temperature range from -40°C to +85°C

Markings:



II 2 G Ex db IIC T6...T1 Gb
T5...T1 (Ta = -20°C to +85°C)
T6 (Ta = -20°C to +80°C)
II 2 D Ex tb IIIC T90°C...T125°C Db
-40°C to +85°C

Description of Equipment:

Model Code:

a-b84cdefghi Mineral Insulated Thermocouples

a = Customer Specification Number (Optional): Any Four to Eight Digit Numeric Code beginning with "T...". If no Customer Specification Number selected, Part number would start with code (b) Sensor Type

b = Sensor Type: MI

c = Sheath Diameter (in inches): 6 (3/16 inch), 7 (1/4 inch)

d = Sheath Material: 3 (316 Stainless Steel), 5 (Inconel 600)

e = Calibration: J, K, T, E, JJ, KK, TT, EE

f = Hot Junction: G (Grounded), U (Ungrounded)

g = Sheath Length (in inches): L# - up to 6 digit numeric value

h = HD82 (1/2 inch NPT Process Connection x 3/4 inch NPT Conduit Connection enclosure), None (standard 1/2 inch NPT x 1/2 inch NPT connection enclosure)

i = Options Not Affecting Certifications: Any Four Digit Alpha Numeric Code

Specific Conditions of Use:

1. Flameproof joints are not intended for repair.
2. Appropriate cable, glands, and conduit seals need to be suitable for a temperature of 5°C greater than the maximum specified ambient temperature for location where installed.
3. Potential Electrostatic Charging Hazard. Avoid Installation that could cause electrostatic build-up and only clean with a damp cloth.
4. Refer to Table 1 and Table 2 for the applicable Temperature Class / Maximum Surface Temperatures rating assigned according to assigned allowed ambient and process temperature ranges.

Table 1

Temp. Class (T-Code) Ex db	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T6	-20 to +80	-20 to +85
T5	-20 to +85	-20 to +100

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T4	-20 to +85	-20 to +135
T3	-20 to +85	-20 to +200
T2	-20 to +85	-20 to +300
T1	-20 to +85	-20 to +450

Table 2

Maximum Surface Temp. DUST	Ambient Temperature Range (°C)	Process Temperature Range (°C)
T90C	-40 to +85	-20 to +85
T100C	-40 to +85	-20 to +100
T125C	-40 to +85	-20 to +125

5. The thermocouple sensor assemblies require the use of a suitably rated thermowell installed for the end use application if the process pressure rating is higher than 7.25psig.

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Blueprint Report

United Electric Controls Co 1000000822

Class No. 3615

Original Project I.D. 466472

Certificate I.D. FM24ATEX0030X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
62174-122	A	TEMPERATURE SENSORS FOR Ex RATING	PR466472
62174-123	A	EXPLOSION PROOF ENCLOSURE	PR466472
IM_STYLE79	1	Installation and Operation Instructions, Style 79 Explosion-proof RTD Assembly with Remote Cable Assembly	PR466472
IM_STYLE83	1	Installation and Operation Instructions, Style 83 Explosion-proof RTD and Thermocouple Assemblies with Spring Loaded Sheath	PR466472
IM_STYLE84	1	Installation and Operation Instructions, Style 84 Explosion-proof RTD and Thermocouple Assemblies with Welded Process Connection	PR466472