



Certificate of Compliance

Certificate: 70084044

Master Contract: 151079

Project: 80161043

Date Issued: 2023-07-10

Issued To: Endress+Hauser SE+Co. KG
Hauptstrasse 1
Maulburg, Baden-Württemberg, 79689
Germany

Attention: Arno Götz

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Anil Sodhi
Anil Sodhi

PRODUCTS

CLASS 2252 06 – PROCESS CONTROL EQUIPMENT

CLASS 2252 86 – PROCESS CONTROL EQUIPMENT (Certified to U.S. Standards)

Pressure switches for safe measurement and monitoring of absolute and gauge pressure, model series **Ceraphant PTP31B-CAbcdefg+xx, PTP33B-CAbcdefg+xx and PTC31B-CAbcdefg+xx**, supplied with 10...30 Vdc; $P_{max} \leq 1.8 \text{ W}$, $I < 60 \text{ mA}$, maximum pressure 400 bar, ambient -20°C to $+70^{\circ}\text{C}$. Enclosure Type 4X (cable version, M12 version, valve version), IP66/IP67 (cable version), IP65/IP67 (M12 version), IP65 (valve version) depending on connection (for details regarding enclosure type refer to Att2 Illustrations), as applicable, (where b=3 for PNP+4-20mA, 4-wire,
b=4 for PNP, 3-wire or
b=5 for 2xPNP, 4-wire,
b=7 for PNP + 4-20mA, IO-Link, 4-wire
b=8 for 2xPNP, IO-Link, 4-wire



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b=A for PNP + 4-20mA, IO-Link, 4-wire (SSP Ed. 2 V1.1)

b=B for 2xPNP, IO-Link, 4-wire (SSP Ed. 2 V1.1)

where c=A for cable 5m, IP66/68 NEMA Type 4X/6P Encl.,

c=B for cable 10m, IP66/68 NEMA Type 4X/6P Encl.,

c=C for cable 25m, IP66/68 NEMA Type 4X/6P Encl.,

c=D for cable 5m, IP66/67 NEMA Type 4X Encl.,

c=E for cable 10m, IP66/67 NEMA Type 4X Encl.,

c=F for cable 25m, IP66/67 NEMA Type 4X Encl.,

c=M for plug M12, IP65/67 NEMA Type 4X Encl.,

c=U, for valve connector ISO4400 M16, IP65 NEMA Type 4X Encl. and

c=V, for valve connector ISO4400 NPT1/2, IP65 NEMA Type 4X Encl.,

where d, e, f, g are all other suffices may be variables not pertinent to the certification). The notation “+” may be used before the model designation to denote that an alternative equivalent model (bearing the equivalent Approval Mark as applicable), may be used. Equivalent means that the model has the equivalent mechanical and electrical characteristics and has no impact on the conformity of the product.

Notes:

1. Models designation maybe followed by “-“and additional numbers or letters, as specified by order code (for details refer to Description/General), as applicable.
2. The above model is Equipment Class III, Pollution Degree 2, Installation Category II.
3. Mode of operation: Continuous
4. Environmental Conditions:
Extended/as specified by manufacturer: maximum ambient temperature range -20 °C to +70 °C;
Normal: 2000 m max, 80% r.h. to temperatures up to 31 °C decreasing linearly to 50 % r.h. at 40 °C

CONDITIONS OF ACCEPTABILITY

- (1) As disconnecting device – required by clause 6.11 – the power supply disconnecting device or interrupt facility is used, not part of this investigation.
- (2) The equipment is supplied by a certified power source which is approved in accordance to IEC 60950-1 or IEC 61010-1, not part of this investigation. The DC output of this separately certified power source shall be below the limits of clause 6.3.1 of IEC 61010-1:2010/CAN/CSA-C22.2 No. 61010-1-12/UL 61010-1:2010 (3rd edition)
- (3) The DC output of under (2) mentioned DC output must be fused by an approved type acceptable to the authorities in the country where the equipment is sold and rated 630 mA T type fuse, so that this unit's supply is in accordance to clause 9.4 of UL61010-1 or LPS in accordance to UL60950-1 or Class 2 in accordance to UL 1310.
- (4) Equipment is not intended for use in hazardous locations.
- (5) Basic safety was part of investigation. No requirements regarding functional safety investigated.



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APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61010-1-12 - Safety Requirements for Electrical Equipment for Measurement,
+ UPD1:2015, UPD2:2016, AMD 1-18 Control, and Laboratory Use, Part 1: General Requirements

ANSI/UL Std. No. 61010-1:2019 (3rd Ed.) - Safety Requirements for Electrical Equipment for Measurement,
Control, and Laboratory Use - Part 1: General Requirements

Notes:

Products certified under Class C225206, C225286 have been certified under CSA's
ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

| Project | Date | Description |
|----------------|-------------|--|
| 80161043 | 2023-07-10 | Update CSA report 70084044 for the Ceraphant product models PTP31B, PTP33B and PTC31B to introduce an IO-Link software feature “SSP Ed. 2 v1.1” to the existing product with new order codes. |
| 80125939 | 2022-06-15 | Update to report 70084044 to add missing electronic designations in report and certificate. |
| 70214157 | 2019-03-11 | Update to Report 70084044 to cover additional IO-link function (new electronic) in energy limited area. |
| 70107605 | 2016-11-25 | Update to Report 70084044 to cover editorial changes. |
| 70084044 | 2016-10-27 | Original Certification of Pressure switches for safe measurement and monitoring of absolute and gauge pressure, model series Ceraphant PTP31B, PTP33B and PTC31B. To requirements of CAN/CSA-C22.2 No. 61010-1-12 and UL Std. No. 61010-1 (3rd Edition), Classes 2252-06/86. |