

INSTALLATION DATA MANUAL MODEL 570/770/870 PRESSURE TRANSMITTERS MODEL LP770 PRESSURE TRANSMITTER

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COMPANY BACKGROUND

Viatran is an ISO 9001:2008 certified company committed to providing high quality pressure transducers and transmitters. Established more than 40 years ago, Viatran has built its reputation on providing durable, and accurate pressure sensing devices. Our products are often specifically specified by integrators and engineering firms for applications ranging from the offshore oil rigs to tank and well level measurement. Viatran is often called for custom modifications for applications where standard products are not available.

TECHNICAL SUPPORT

Technical assistance is available Monday – Friday 8:00 AM to 5:00 PM (Eastern) from our knowledgeable factory personnel to answer any of your application or installation questions. Our toll-free number is 1-800-688-0030. Questions or additional documentation can also be requested via e-mail at solutions @viatran.com.

CUSTOMER SERVICE

Orders for additional units or accessories can be placed by calling customer service at 1-800-688-0030 or by fax at 1-716-693-9162. Orders can also be placed by contacting a local representative in your area. To find the nearest representative, visit our web site at www.viatran.com.

PRODUCT OVERVIEW

All information contained in this document is representative of a standard Model 570/770/870 and LP770. If the product you ordered has special requirements or modifications, refer to the permanently marked information on the product and you purchase order for possible alteration to the product's configuration. Failure to verify product configuration before installation may cause permanent product damage and in most cases, void the manufacturer's product warranty. If you are unsure or have questions about you product, please contact our Application Engineers for assistance.

Remove and retain all instruction manuals and performance certificates that are shipped with the product. These documents provide important information on the product's calibration, operation, safety precautions, recommended maintenance, re-calibration requirements, repair service instructions and warranty information. These documents are updated from time to time as changes to the product occur and should be reviewed at receipt so that proper and safe installation can occur.

BASIC OPERATION

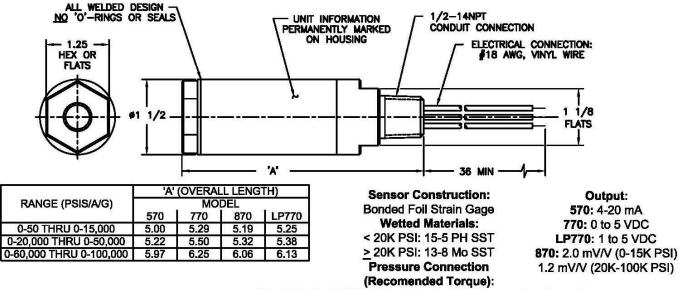
The "70" Series has been pre-set at the factory for the required output. Typical outputs are 4-20 mA, 0-5 VDC (1-5 VDC on LP770) and 2 mV/Volt. With the exception of absolute units, which are referenced to absolute zero (full vacuum), all other products are referenced to atmospheric pressure (zero PSIG). Once factory set, the product should perform as indicated by the performance certificate and product labeling. In all cases the zero and span cannot be externally adjusted, hence any deviation from the factory settings would indicate damage to the sensor, electronics, or both.

- A. For compound ranges with a voltage output, (a negative pressure to a positive pressure, ie. -15 to +50), the zero balance will occur and be set for zero PSIG. For the compound range the output of the transmitter will be split between the plus and minus pressure ranges with respect to zero. The output would be plus or minus depending on the type of pressure applied to the pressure port. For compound ranges with a 4-20 mA output, where an output is required at a negative pressure (ie. -15 to +50) the zero balance will be set at the negative pressure (ie. 4 mA at -15 and 20 mA at +50 PSI).
- B. Output for sealed units will go positive with positive pressure applied to the pressure port.
- C. For absolutes, the pressure port must have a full vacuum applied to reach the absolute zero point. After the full vacuum is applied, the unit will begin to read positive pressure changes as less and less of a vacuum is evident at the pressure port.

INSTALLATION DATA - VIATRAN MODEL 570/770/870/LP770

Note: The drawing below is for informational purposes only and is not to scale.

All dimensions are nominal, in inches and for reference purposes only.



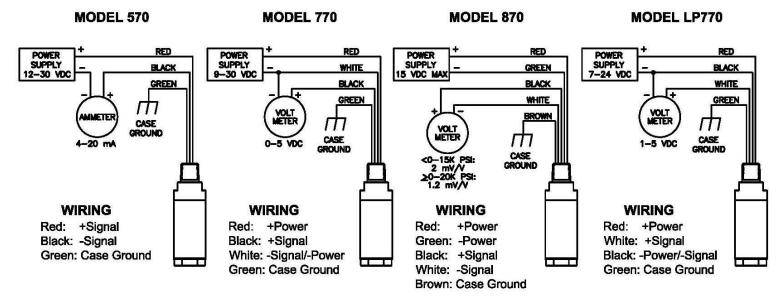
50 - 15K PSI: 1/4" NPT female (about 3 full turns after finger tight) 20K - 50K PSI: AE type F250C (25 FT-LBS)

60K - 100K PSI: AE type F312C150 (70 FT-LBS)

Electrical Mating Connection:

Acceptable 18AWG wire termination connection - 1/2" NPT(M)

CONNECTION DIAGRAMS & WIRING



Note: If the unit is certified for hazardous locations as Intrinsically Safe, use the enclosed connection diagram. Only the pressure transmitter is considered to have the Factory Mutual, CSA or ATEX safety ratings. If you have purchased a transmitter and isolator/remote seal, they have not been tested as a system for safety certification. The end-user shall be responsible for verifying the system is safe and installed accordingly.

INSTALLATION REQUIREMENTS AND CAUTIONS

- 1. All electrical & pressure connections should be compatible with specifications outlined above.
- Installation should occur only after electrical (input power) and line pressure is off and at zero.
- 3. The product's internal electrical circuitry is isolated from case ground. It is not recommended that the case or ground of the unit be connected to the input, output, or calibrate pins of the product or wiring system. Ground loops and line noise will affect the product's performance and may cause internal electrical failure.
- 4. All products should be protected from direct or continued exposure to fluids at the electrical connection. The electrical connections on the Models 570, 770, 870, and LP770 have been designed to be terminated in a junction box or encased in conduit. In applications where moisture or fluid contamination is possible, the use of an application approved connection box is recommended for connection termination.
- 5. Use care when handling the unit by the connection wires. Continued or constant movement of the connection wires at the area of sealant might cause the seal to break. If the seal fails, internal contamination and product failure will occur.
- 6. When installing the unit to a pressure or electrical connection, only use the wrench flats closest to the end being installed. If the unit is being installed on a pressure pipe, only use the 1-1/4" wrench flats at the end where the pressure port is located, not the 1-1/8" flats at the electrical end.
- 7. At no time should an object be inserted into the pressure port or pressed against the sensing area to deflect the sensor (to test or simulate pressure), as permanent damage to the sensing diaphragm may occur.
- 8. To preserve the integrity of the hermetic design, the units have no field replaceable or repairable parts.
- 9. When shipped in quantities, units should be packaged individually to eliminate possible damage.
- 10. The "70" Series can be provided with a variety of pressure fittings. The units should be mounted using an antigalling product on the threads that is compatible with the media being measured. If your unit is equipped with a NPT female pressure port, it should be mounted to 20 ft-lbs. of torque to ensure proper trim. Always check for process leaks after installation.

CONDITION OF USE

- 1. Equipment will be installed only with wiring systems not requiring earth connection. e.g. Metal conduit or armored cable (See Note #3 above).
- 2. Ex db certified sealing device shall be used between the equipment and wiring system.

MAINTENANCE AND REPAIR

Viatran transmitters are designed to function free from routine or scheduled maintenance. Simple cleaning of the electrical connector, pressure port threads, and pressure cavity on an as needed basis will provide years of satisfactory performance. Protecting the product from continued exposure to moisture or fluids at the electrical connection, breather area (model dependent) will eliminate premature internal failure of the product. Whenever the product is removed from service, the connector and pressure port threads should be cleaned and the pressure cavity flushed with a stainless steel compatible cleaner to prevent media buildup. A lint-free cloth is recommended for cleaning. Cleaning with a coarse or stiff bristle can damage the diaphragm surface.

It is suggested that the calibration be verified on a usage dependent schedule. It the product is in continuous service 7 days a week, calibration verification may be necessary every 6 to 8 months. If the product is in a lab test environment, a more lenient verification schedule would be appropriate. In all instances, the performance of the product will depend on the individual application or process in which it is installed. More continued usage would require a shorter period between calibration verification and product maintenance.

If a product is perceived to be exhibiting problems, it may be returned to Viatran for analysis and/or repair. It is suggested that only Viatran personnel attempt repair of the product. Any damage resulting from customer disassembly would result in a loss of coverage under the warranty policy. All Viatran products are able to be repaired at minimal cost if simple cleaning and precautions are taken in the handling and application of the product. Older products returned for repair are updated to current specifications unless the repair cost would outweigh the cost of a new replacement model. Products returned for repair should include information on the person to contact for repair quote approval, the individual to contact if Viatran's technical staff requires additional information during analysis, and a brief description of the problem associated with the product's failure.

WARRANTY

Viatran Corporation warrants that its products shall be free from defective workmanship and/or material for a period of twelve (12) months from the date of shipment, provided that Viatran's obligation hereunder shall be limited to correcting any defective workmanship and/or replacing any defective material f.o.b. factory. No allowance will be made for any expense incurred for correcting any defective workmanship and/or material without written consent by Viatran. This warranty is in lieu of all other warranties expressed or implied.

REPAIR INSTRUCTIONS

Viatran's Transmitters are designed to be easily repaired and recalibrated if necessary. If a failure occurs, the transmitter should be returned to the factory for inspection and testing. Please contact the Customer Support Department at 1-800-688-0030 for a return tracking number and/or a repair cost estimate. A nominal inspection fee is charged on all units returned to the factory which are not subsequently repaired.

OPTIONAL APPROVALS Model 570

570_TF_(A)

[All product except as noted in labels 570TF(B-D)



APPROVED
INTRINSICALLY SAFE FOR USE IN
CLASS I, JII, III, DIV. 1, GROUPS A,B.C.D.E.F.,G
CLASS I, ZONE O, AEX in IC
NEMA/TYPE 4X,
HAZ, LOC.
INSTALL PER COOS33
DUAL SEAL for Process Temps —40°F to 300°F

570NZ(A)

[All product except as noted in labels 570NZ(B-D)]



NONINCENDIVE FOR USE IN CLASS I, II & III, DIV. 2, GRPS A.B.C.D.F.G CL I, ZN 2, GRP IIC T4, TG=80°C, TS, TG=40°C NEMA/TYPE 4X, HAZ LOC DUAL SEAL OF Process Temps —40°F to 300°F

570_NY_(A)
[All product ≥300 PSIS/A]



APPROVED
EXPLOSION PROOF FOR USE
IN CLASS I, DN. 1, GROUPS A.B.C.D
CLASS II,7III. DN. 1, GROUPS E.F.G
CLASS I, ZONE 1, AEX d IIC
T5 at To-88°C NEM4 4X
HAZARDOUS LOCATIONS
Factory Seeled, Condult Seal not Required
DUAL SEAL
for Process Temps -40°F to 300°F

570_NG_

[For 'S' Sealed format and 'A' Absolute format pniv]



2

Ex dB IIC T4...T8 Gb T6...T4: -20°C<Ta<60°C PRESAFE 16 ATEX 8250X



570_NX_(A)

[All product except as noted in labels 570NX(B)]



570_TF_(B)

['G' Gage format



INTRINSICALLY SAFE FOR USE IN CLASS I, DM. 1, GROUPS A.B.C.D, CLASS I, ZONE D. AEX IOIC T4, To-80°C, T5, To-40°C HAZARDOUS LOCATIONS INSTALL PER COORS3

DUAL SEAL for Process Temps -40°F to 300°F

570NZ(B)

['G' Gage format



APPROVED
NONINCENDINE FOR USE IN
CLASS I, DIV. 2, GRPS A,B,C,D
CL I, ZN 2, GRP IIC
T4, Ta=80°C, T5, Ta=40°C HAZ LOC
DUAL SEAL
for Process Temps -40°F to 300°F

570_NY_(B)
[All product (All Ranges) PSIG/PSIV/TB]



APPROVED
EXPLOSION PROOF FOR USE
IN CLASS I, DIV. 1, GROUPS A,B,C,D
CLASS II/III, DIV. 1, GROUPS E,F,G
T5 et To-85°C NEMA 4X
HAZARDOUS LOCATIONS
Factory Secied, Conduit Seal not Require
DUAL SEAL
for Process Temps -40°F to 300°F

570_NK_(A)

[For < 1 Meter Wire]



Ex ia IIC Ga T4: -20°C<Ta<75'(T5: -20°C<Ta<40'(UI=28V, II=100mA UI=1.2uH, CI=14nF Pi≤1W

LCIE 03 ATEX 6373 X



570_NX_(B)

['G' Gage format and/or any alt. electrical connections



CSA 03.1000784 CLASS I, DM. 1, GRPS A,B,C,D; Ex ia IIC T4, Ta=80°C, T5, Ta=40°C Per drawing CD0627 570_TF_(C)

[All product ≤299 PSIA/S/V]



APPROVED
INTRINSICALLY SAFE FOR USE IN
CLASS I.I.I.II, DIV. 1, GROUPS A.B.C.D.E.F.G
CLASS I. ZONE O. AEX IG IIC
T4, TG—80°C, T5, TG—40°C
NEMA/TYPE 4X,
HAZ. LOC.
INSTALL PER CD0833

570NZ(C)

[All product ≤299 PSIA/S/V]



APPROVED

NONINCENDIVE FOR USE IN CLASS I, II & III, DIV. 2, GRPS A.B.C.D.F.G CL I, ZN 2, GRP IIC T4. T3-80°C, T5. T3-40°C NEMA/TYPE 4X, HAZ LOC

570_NY_(C)
[All product <300 PSIS/A]



APPROVED
EXPLOSION PROOF FOR USE
IN CLASS I, DM. 1, GROUPS A.B.C,D
CLASS II/IIII, DM. 1, GROUPS E.F.G
CLASS I, ZONE 1, AEX d IIC
TB at Ta-BB*C NEMA 4X
HAZARDOUS LOCATIONS
ictory Sealed, Conduit Seal not Required

570_NK_(B)
[For 100 Meters Wire]



Ex ia IIC Ga T4: -20°C<Ta<75°C T5: -20°C<Ta<40°C Ui=28V, Ii=100mA Li=101.2uH, Ci=34nF

LCIE 03 ATEX 6373 X



570_ME_



CERTIFIED EXPLOSION
PROOF FOR
CLASS I, DM. 1,
GRPS A.B.C.D:
CLASS II, DM. 1,
GRPS E.F.G;
CLASS III
HAZARDOUS LOCATIONS
Type 4 Encl.

570_TF_(D)

[All alternate



APPROVED

NTRINSICALLY SAFE FOR USE IN
LASS I, DIV. 1, GROUPS A,B.C.D.
CLASS I, ZONE O, AEx ia IIC
T4, Ta=80°C, T5, Ta=40°C
HAZARDOUS LOCATIONS
INSTALL PER CD0833

570NZ(D)

[ZU option only]



APPROVED

NONINCENDIVE FOR USE IN
CLASS I, DIV. 2, GRPS A,B,C,D
CL I, ZN 2, GRP IIC
T4, Ta=80°C, T5, Ta=40°C HAZ LOC

570_TW_



570_KN_ [For 'S' Sealed format and 'A' Absolute format only]

> EX db IIC Gb T5 -20°C ≤ Ta ≤ 88°C

> > 570_TK_



PRESAFE 16 ATEX 8251X

570_NJ_



OPTIONAL APPROVALS Model 770

770_NY_(A) [All product ≥300 PSIS/A]



APPROVED
EXPLOSION PROOF FOR USE
IN CL. I, DW. 1, GP3 A.B.C.D
CL. II/MI, DW. 1, GP3 A.B.C.D
CL. I, ZM. 1, AEX d IIC
15 AT T0-85°C TYPE 4X
HAZ. LOC.
FACTORY SEALED, CONDUIT SEAL NOT REQUIRED
DUAL SEAL.
FOR PROCESS TEMPS -40°F TO 300°F

770_TF_(A) [All product except as sted in labels 77UTF(B-D)]



APPROVED

INT. SAFE FOR USE IN

CL. IJJ,III, DIV. 1, GPS A,B,C,D,E,F,G
CL. I, ZN O, AEV. In ICT 14, TO-80°C,
TB, Ta-40°C TYPE 4X, HAZ. LOC.
INSTALL PER CD0850

DUAL SEAL FOR PROCESS TEMPS -40°F TO 300°F

770_NZ_(A)



APPROVED
NOMINCEMBUR FOR USE IN
CL. I, II & BI, DW. 2,
GPS A.B.C.D.F.G
CL. I, ZN 2, GP BC
T4, T0=80°C, T3, T0=40°C
TYPE 4X, HAZ, LOC.
DUAL SEAL
FOR PROCESS TEMPS -40°F TO 300°F

770_DE_NK



PRESAFE 16 ATEX 8240X



770_NG



770_NY_(B) [All product (All Rangee) PSIG/PSIV/TB Option]



APPROVED
EXPLOSION PROOF FOR USE
IN CL. I, DIV. 1, GPS A.B.C.D
CL. II/III, DIV. 1, GPS E.F.G
TO AT TO-BSTC 1/TPE 4X
HAZ. LOC.
FACTORY SEALED, CONDUIT SEAL NOT REQUIRED
DUAL SEAL
FOR PROCESS TEMPS —40°F TO 300°F

770_NY_(C) [All product <300 PSIS/A]



APPROVED

EXPLOSION PROOF FOR USE

IN CL I, DN. 1, GPS A.B.C.D

CL II/III, DN. 1, GPS E.F.G

CL I, ZN 1, AEX d IIC

TS AT TO-BSTC TYPE 4X

HAZ. LOC.

FACTORY SEALED, CONDUIT SEAL NOT REQUIRED

770_TW



770_TF_(B)



NT. SAFE FOR USE N
CL I, DN. 1, GPS A.B.C.D,
CL I, ZN O, AE, Lo IK CT 4, TG=80°C,
TB, TG=40°C HAZ. LOC.
NSTAL FOR COOKS
DUAL SEAL FOR PROCESS TEMPS -40°F TO 300°F

770_TF_(C) [All product <299 PSIA/S/V]



770-TF_(D) [TH, All alternate



770_NZ_(B) ['G' Gage format, TH, TB, ZU]



NONINCENDIVE FOR USE IN CL. I, DN. 2, GPS A.B.C.D. CL. I, ZN. 2, GP IC. T4, TG=80°C, T3, TG=40°C HAZ. LOC. DUAL SEAL FOR PROCESS TEMPS -40°F TO 300°F -40°F TO 300°F

770_NZ_(C) [All product <299 PSIA/S/V]



APPROVED

HONINCENOME FOR USE IN
CL I, IA III, DIV. 2,
GPS A.B.C.D.F.G
CL I, ZN 2, GP IIC
T4, Ta=80°C, T5, Ta=40°C
TYPE 4X, HAZ, LOC.

770_NZ_(D) [All Alt. Connectors]



APPROVED

NONINCENDIVE FOR USE IN
CL. I., DN 2, GPS A,B,C,D,
T4, Ta=80°C, T8, Ta=40°C
HAZ. LOC.
WARNING: DO NOT DISCONNECT THE
CONNECTOR WHILE THE CIRCUIT IS
LIVE WHEN A FLAMMABLE OR
COMBUSTABLE ATMOSPHERE IS PRESENT.

770_NK_ZU



PRESAFE 16 ATEX 8249X

770_DE_NK_ZU



PRESAFE 15 ATEX 8249X

770_NK

PI≤1W PRESAFE 16 ATEX 8249X

770_TK

PRESAFE 16 ATEX 8251X

770_NX_(A) [All product except on noted in label 770_NX_(B)]



CSA 04 1507558

770_NX_(B) ['G' gage format, TH, or any



CSA 04 1507588 CL I, DIV. 1, QPS AB.C.D; Ex la IIC T4, Ta=80

770_NJ



OPTIONAL APPROVALS Model 870

870_NY_(A) [All product ≥300 PSIS/A]



APPROVED
EXPLOSION PROOF FOR USE
IN CL I, DW. I, GPS AB,C,D
CL II, DW. I, GPS AB,C,D
CL I, ZN I, AEX d IC
IS AT TG-BSC TYPE 4X
HAZ. LOC. FACTORY SEALED,
CONDUIT SEAL NOT REQUIRED
DUAL SEAL
FOR PROCESS TEMPS -40T TO 300T

870_NZ_(A) [All product except as noted in labels 670NZ(B-C)]



APPROVED

NOMINCENDIVE FOR USE IN
CL. I, II & IB, DM. 2,
GPS A.B.C.D.F.C.
CL. I, ZN. 2, GP IIC
T4, T0=80°C, T5, T0=40°C
TYPE 4%, HAZ, LOC,
DUAL SEAL
FOR PROCESS TEMPS —40°F TO 300°F

870_TF_(A) [All product except as noted in labels 570TF(B-D)]



APPROVED
INTRINSICALLY SAFE FOR USE IN
CL. I,I,II, DM. 1, GPS. A,B,C,D,E,F,G
CL. J. ZM. O, AEX IO BC T4, To=80°C,
T5, Ta=40°C TYPE 4X, HAZ. LDC.
RISTAL FOR CD0647
DUAL SEAL FOR PROCESS TEMPS -40°F TO 300°F

870_NY_(B) [All product (All Ronges) PSIG/PSIV/TB Option]



APPROVED
EXPLOSION PROOF FOR USE
IN CL. I, DW. 1, GPS A,B,C,D
CL. II/III, DW. 1, GPS E,F,G
TS AT TO-88°C TYPE 4X
HAZ. LOC. FACTORY SEALED,
CONDUIT SEAL NOT REQUIRED
DUAL SEAL
FOR PROCESS TEMPS —40°F TO 300°F

870_NZ_(B) ['G' Gage format, TH, TB, ZU]



NONNICEMENT FOR USE IN CL I, DNY. 2, GPS AB.C.D CL I, ZNY. 2, GPS AB.C.D CL I, ZNY. 2, GP IIC

14, To=80°C, TS, To=40°C HAZ, LOC. DUAL SEAL
FOR PROCESS TEMPS —40°F TO 300°F

870_TF_(B) [G, V formata, TB, ZU]



APPROVED
INTRINSICALLY SAFE FOR USE IN
CL I, DN. 1, GPS A,B,C,D,
CL I, ZN 0, AEx in IC 74, Ta=80°C,
TB, Ta=40°C HAZ, LOC.
NSTALL FER CD047
DIAL SEAL FOR PROCESS TEMPS —40°F TO 300°F

870_NY_(C) [All product <300 PSIS/A]



APPROVED

EXPLOSION PROOF FOR USE
IN CL I, DIV. 1, GPS A.B.C.D

CL II, JN I, A.P.S E.F.G

CL I, ZN I, A.P.S IIC

TS AT Ta-BSC TYPE 4X

HAZ. LOC. FACTORY SEALED,

CONDUIT SEAL NOT REQUIRED

870_NZ_(C) [All product <299 PSIA/S/V]





APPROVED

NONINCENDIVE FOR USE IN
CL I, II & III, DIV. 2,
GPS AB.C.D.F.G
CL I, ZN 2, GP IIC

14, Ta-80°C, T5, To-40°C

TYPE 4X, HAZ. LOC.

870_NZ_(D)

[All Alt. Connectors]

870_TW



MONNICENDINE FOR USE IN CL. I, DIV 2, GPS A.B.C.D., T4, Ta-BOTC, T5, Ta-BOTC HAZ. LOC.

WARNING: DO NOT DISCONNECT THE CONNECTOR WHILE THE CIRCUIT IS LIVE WHEN A FLAMMELE OR COMBUSTABLE ATMOSPHERE IS PRESENT.

870_TF_(C) [All product <299 PSIA/S/V]

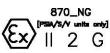


APPROVED
INTRINSICALLY SAFE FOR USE IN
CL. IJ.IIII. DIV. 1, GPS A.B.C.D.E.F.G
CL. I, ZN O, AEx io IIC T4, To=80°C,
T5, To=40°C TYPE 44, HAZ. LOC.
INSTALL PER CD0847

APPROVED
APPROVED
APPROVED
APPROVED
CL. I, DIV. 1, GPS A.B.C.D.
CL. I, DIV. 1, GPS A.B.C.D.
CL. I, ZN O, AEx io IIC T4, To=80°C,
T5, To=40°C HAZ. LOC.
INSTALL PER CD0847

870_TF_(D) [TH, All alternate lectrical connection





Ex db NC T8...T4 Gb T8...T4: -20°C<T0<50°C



870_NK

Ex ia IIC T4 Ga (-20°C<Ta<80°C) Ui=28V, R=100mA Li=2.4nM, Ci=12nF PL≤1W

PRESAFE 16 ATEX 8240X



870_NK_ZU

PRESAFE 16 ATEX 8249X





PRESAFE 18 ATEX 8251X



870_NX_(A) [All product except as noted in label 670_NX_(B)]



CSA 04 15079586
CL I, DIV 1,
OPS A.B.C.D:
CL II, DIV 1,
OPS A.B.C.D:
CL II, DIV 1,
EX IO IC 14, TO—80°C,
TS, TO—60°C,
TYPE 4 ENCL
PER DRAWNING CD00448.
DUAL SEAL

870_NX_(B) ("G" formats or any att. electrical connections)



CSA 04 1507558 CL L DIV. 1, GPS AB.C.D; Ex la IIC T4. Ta=50* Ex la IIC T4, Ta=80°C, T5, Ta=40°C PER DRAWING CD0846.

870_TJ_(A) [All product except as noted in 870_TJ_(B)]



CSA 04 1507558

870_TJ_(B) ['G' format or alt.



CSA 04 1507558 CL I, DW. 2, GPS A,B,C,D; TS AT TG=80°C

870_ME



CERTIFIED EXPLOSION RTIFIED EXPLOS
PROOF FOR
CL I, DIV. 1,
GPS A,B,C,D;
CL II, DIV. 1,
GPS E,F,Q;
CL III
HAZ. LOC.
TYPE 4 INCL
DUAL SEAL

870_NJ



OPTIONAL APPROVALS Model LP770

