Includes warnings and installation drawings for using the Hand Held Calibrator in Hazardous areas as defined by Factory Mutual:
Class I, Division 1, Groups A, B, C and D
Intrinsically Safe location Groups
Class I, Division 2, Groups A, B, C and D Non Incendive Hazardous location Groups
Includes warnings and installation drawings for using the Hand Held Calibrator in Hazardous areas as defined by CSA:
Class 1, Division 1, Groups A,B,C,D

Includes warnings and installation drawings for using the Hand Held Calibrator in Hazardous areas as defined by ATEX:
II 1 G FM12ATEX0035X
Ex ia II C T4 Ga -20°C<Ta<+50
ENTITY PARAMETERS
Ui=33Vdc Ii=300mA Ci=0 Li=0 Pi=1.5W
Uo=5.735Vdc Io=586µA Co=46µf L0=1H
Po=840µW
FM21UKEX0003X

Additional Warnings for Intrinsically Safe approved versions
• An “Ex/hazardous” area as used in this manual refers to an area made hazardous by the potential presence of flammable or explosive gases or vapors. These areas are also referred to as hazardous locations.
• When marked with the following Symbols the calibrator is approved by Factory Mutual (FM) for use in Class In Division 1, Groups A,B,C,D hazardous areas, by ATEX for use in Ex ia II C T4 Ga -20°C<Ta<+50C and by CSA for use in Class 1, Division 1, Groups A,B,C,D
• When marked as approved the ATE-2/PTE-2 calibrator is agency approved for use in areas when potentially flammable or explosive gas or vapor may occur. These areas are referred to as hazardous (classified) location in the United States, as Hazardous Locations in Canada, as Potentially Explosive Atmospheres in Europe and as Explosive Gas Atmospheres in other parts of the world. The HHC’s voltage and current input jacks have entity parameters and as such can be utilized in a hazardous location to connect to other apparatus as long as said apparatus meets the requirements of the entity parameters.
• Before entering a hazardous area, close and secure with the lock screw both the battery door and USB/SD card door prior to use in a hazardous area.
• Replace batteries only in a non-hazardous area.

SPECIFIC CONDITIONS OF USE:
• Use only Duracell Model MN1500 AA alkaline batteries primary cell batteries.
• The apparatus contains exposed metal parts that have a capacitance of 14pf, do not use in unsuitable application.
• No connections shall be made to the communications "USB" port in Hazardous (Classified) Locations
• Accessory P/N 101C225-01 must be used in conjunction with the USB port when used with non-assessed equipment
• The Panasonic BR1225 Lithium Battery is not user replaceable.
• The battery access cover is not to be removed while in a hazardous area.
• The USB/SD access door is not to be removed while in a hazardous area.
• The USB connection-data transmission and power input- are restricted to be used in a non-hazardous area only.
• The non-hazardous area USB apparatus – computer port, wall supply, etc., connected to the USB port of the HHC, must be assessed and conform to section 6.2.5 of EN60079-11. This precaution is to protect the integrity of the safety components within the HHC, which insures its intrinsic safety rating while in the hazardous location.
• For use with non-assessed USB equipment accessory part number 101C225-01 is to be inserted between the HHC USB port and the non-assessed apparatus. not power the calibrator by USB cable in a hazardous area, this action will render the calibrator not intrinsically safe.
• Intrinsically safe installation diagrams, entity parameters and warnings are included in drawing 825A028 included in this manual.
Battery Installation
Use only Duracell Model MN1500 AA alkaline batteries primary cell batteries, quantity four.

1. To gain access to the battery compartment, loosen the strap assembly by detaching the Velcro connection and moving the strap to the side to allow access to the Philips head screw on the battery cover door.

2. Open the battery compartment by loosening the Philips head screw located in the battery compartment door immediately above the product label.

3. Using thumb and forefinger gently lift battery door up and toward the top of the calibrator to remove door.

4. Install four new AA Alkaline batteries. Observe polarity markings to install batteries correctly. Never mix old and new batteries.

5. Reinstall battery door. Be sure that lower latch tab is engaged beneath clasp hook to ensure proper watertight sealing of battery compartment.

6. Tighten Philips head screw in top of cover.

Replace strap by tightening strap and secure with Velcro.

The Panasonic lithium ion battery used to maintain power to the real time clock is not user serviceable. Return the calibrator to Ashcroft factory or an authorized service agent for replacement.
1. ENTITY CONCEPT DEFINITION:

2. USE OF THE HAND HELD CALIBRATOR IN THE FIELD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE INSTALLATION DIAGRAM.

3. INTRINSIC SAFETY IS CONTINGENT UPON THE HAND HELD CALIBRATOR'S USE IN COMMUNICATIONS PORT COVER AND THE BATTERY COMPARTMENT COVER BEING PROPERLY INSTALLED ON THE INTRINSICALLY SAFE APPARATUS, INCLUDING INTERCONNECTING WIRING.

4. THE HAND HELD CALIBRATOR IS 5,000 FT.

5. NO REVISIONS TO OCCUR WITHOUT PRIOR FACTORY MUTUAL RESEARCH REVIEW.

6. NOTES:

- TP 7
- TP 8
- TP 9

- RTD PROBE
- USER RTD PROBE
- UNIVERSAL RTD INTERFACE

- SEE NOTES 7, 8, 9

- USER RTD PROBE

- UNIVERSAL RTD INTERFACE

- SIMPLIFIED APPARATUS

- INTRINSICALLY SAFE APPARATUS

- INTRINSICALLY SAFE APPARATUS

- MINIMUM SUGGESTED SECURITY AREAS:

- SIZE DWG. NO.

- IMPORTANT: DIMENSIONS WITHIN OVAL AND NOTES IDENTIFIED WITH "*" REQUIRE MANDATORY INSPECTION.

- INSTALLATION DIAGRAM, HAND HELD CALIBRATOR (RM7)

- CONTROL ROOM

- FM ENTITY APPROVED TRANSMITTER

- TRANSMITTER 4/20mA

- FM ENTITY APPROVED TRANSMITTER

- INTRINSIC SAFE BARRIER

- CONTROL ROOM

- MAXIMUM SAFE AREA VOLTAGE 250 VMS

- ENTITY PARAMETERS (DIVISIONS/ZONE(S)):

- UF/Imax = 335Vdc
- Il/lemax = 300mA dc
- Pi/Pi = 1.5W
- Cj/Ci = 0.04
- Lj/Li = 0.11

- Lj/Li = 0.11

- DO NOT SCALE DRAWING

- CAD GENERATED DRAWING

- DATEDRAWN BY

- DIMENSIONAL TOLERANCES MUST BE MAINTAINED AS SHOWN UNLESS OTHERWISE SPECIFIED. ALL TOLERANCES ARE IN INCHES.

- NO REVISIONS TO OCCUR WITHOUT PREVIOUS FACTORY MUTUAL REVIEW.

- DO NOT MANUALLY UPDATE

- THIRD ANGLE PROJECTION

- MODEL: PRE-2ORATE-2

- HAND HELD CALIBRATOR (HHC)

- TOLERANCES ARE:

- 3 place decimal .000
- 2 place decimal .00
- 1 place decimal .0

- REV. ECO DESCRIPTION BY DATE

- REV. ECO DESCRIPTION BY DATE

- CAD GENERATED DRAWING

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- THIRD ANGLE PROJECTION

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1. Entity Concept Definition:

2. Use of the Hand Held Calibrator in the field shall be in accordance with the transmitter manufacturer's instructions and the transmitter manufacturer's installation diagram, as referenced on the transmitter's label.

3. Intrinsically safe safety is contingent upon the hand held calibrators USB/communications port cover and the battery compartment cover being properly installed on the calibrator as referenced in the operating manual.

4. The UI of the model PTE2 & ATE2 when added to the IA of the associated apparatus must not exceed the UI of the transmitter.

5. The UI of the model PTE2 & ATE2 when added to the IA of the associated apparatus must not exceed the UI of the transmitter.

6. No revisions to occur without prior Factory Mutual Research authorization.


8. A simple apparatus is a device which will neither generate nor store more than 1.6 mJ, 2000 Vrms or 200 mA rms. This includes switches, thermocouples, I.E.C. furnaces, and Computers.

9. The maximum cable length between the simple apparatus and the hand held calibrator is 5 feet.

10. The general UI between the transmitter and the hand held calibrator is 5 feet.

11. This hook-up is acceptable only if the "Test Point" has been approved by FM and is therefore safe.

**IMPORTANT:** Dimensions within oval and notes identified with "**" require mandatory inspection.
This drawing includes confidential information which is the property of ASHCROFT INC. This copy is licensed for the specific purpose, with the understanding that it will not be reproduced or used for any other purpose or disclosed to others, and it will be returned on demand.

NOTES:

1. ENTITY CONCEPT DEFINITION: THE ENTITY CONCEPT TAKES INTERCONNECTION OF INTRINSICALLY SAFE APPARATUS TO ASSOCIATED APPARATUS NOT SPECIFICALLY EXAMINED AS COMMON. THE OPERATOR INTERCONNECTIONS THAT THE VOLTAGE & CURRENT WITH WHICH INTRINSICALLY SAFE APPARATUS CAN RECEIVE AND HANDLE INTRINSICALLY SAFE, CONSIDERING FAIL ST, MUST BE EQUAL TO OR GREATER THAN THE VOLTAGE & CURRENT REQUIREMENTS WHICH CAN BE ADEQUATELY ISOLATED APPARATUS, CONSIDERING FAIL ST AND APPLICABLE FACTORS. IN ADDITION, THE MAXIMUM UNPROTECTED CAPACITANCE (C) AND INDUCTANCE (L) OF THE INTRINSICALLY SAFE APPARATUS, INCLUDING INTERCONNECTING WIRING, MUST BE EQUAL TO OR GREATER THAN THE CAPACITANCE & INDUCTANCE WHICH CAN SAFELY CONNECT TO ASSOCIATED EQUIPMENT.

2. USE OF THE HAND HELD CALIBRATOR IN THE FIELD SHALL BE IN ACCORDANCE WITH THE TRANSMITTER MANUFACTURER'S INSTRUCTIONS AND THE TRANSMITTER MANUFACTURER'S INSTALLATION DIAGRAM AS REFERENCED ON THE TRANSMITTER'S LABEL.

3. INTRINSIC SAFETY IS CONCENTRATED UPON THE HAND HELD CALIBRATORS USB / COMMUNICATION PORT COVER AND THE BATTERY COMPARTMENT COVER BEING PROPERLY INSTALLED ON THE CALIBRATOR AS REFERENCED IN THE OPERATING MANUAL.

4. THE IA OF THE MODEL PTE-2 & ATE-2 WHEN ADDED TO THE IA OF THE ASSOCIATED APPARATUS MUST NOT EXCEED THE IA OF THE TRANSMITTER.

5. THE IA OF THE MODEL PTE-2 & ATE-2 WHEN ADDED TO THE IA OF THE ASSOCIATED APPARATUS MUST NOT EXCEED THE IA OF THE TRANSMITTER.

6. NO REVISIONS TO OCCUR WITHOUT PRIOR FACTORY MUTUAL AUTHORIZATION.

7. INSTALLATION SHOULD BE IN ACCORDANCE WITH ANSIA RPTE.6, "INSTALLATION OF INTRINSICALLY SAFE SYSTEMS FOR HAZARDOUS LOCATION" AND THE NATIONAL ELECTRICAL CODE (NFPA 70).

8. A SIMPLE APPARATUS IS A DEVICE WHICH WAS NEITHER GENERATED NON STORED MORE THAN 12V, 6A, 750W, OR 20A.

9. EXAMPLES: SWITCHES, THERMOCOUPLES, S, A, D, OR R/T.


11. OTHER, THE UNUSUAL REQUIREMENTS IDENTIFIED IN THE INSTRUMENTATION DRAWING ARE FOR USE ONLY WITH USERS RTD PROBE. SEE NOTES 7, 8, & 9.
1. ENTITY CONCEPT DEFINITION:

The entity concept allows intrinsic safe apparatus to be interconnected with additional apparatus in such a combination that the voltage and current which intrinsically safe apparatus can receive and remain intrinsically safe, considering faults, must be equal to or less than the voltage (V) and current (I) levels, which can be delivered by the associated apparatus. Consideration is to be made of capacitive and inductive coupling effects. In addition, the intrinsic apparatus combination must be such that the maximum unprohibited capacitance (C) and inductance (L) of the intrinsically safe apparatus, including the connecting wiring, must be equal or less than the capacitance & inductance which can be safely connected to the associated apparatus.

2. USE OF THE HAND HELD CALIBRATOR IN THE FIELD SHALL BE IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS AND THE TRANSMITTER MANUFACTURER’S INSTALLATION DIAGRAM, AS REFERENCED ON THE TRANSMITTER’S LABEL.

3. INTRINSIC SAFETY IS CONFOUNDED UPON USE OF THE HAND HELD CALIBRATORS:

- USB COMMUNICATION PORT COVER AND THE BATTERY COMPARTMENT COVER IS PROPERLY INSTALLED ON THE CALIBRATOR AS REFERENCED IN THE OPERATING MANUAL.
- THE W II OF THE MODEL PTE2 & ATE2 WHEN ADDED TO THE UI OF THE ASSOCIATED APPARATUS MUST NOT EXCEED THE II OF THE TRANSMITTER.
- THE W II OF THE MODEL PTE2 & ATE2 WHEN ADDED TO THE UI OF THE ASSOCIATED APPARATUS MUST NOT EXCEED THE II OF THE TRANSMITTER.
- NO REVISIONS TO OCCUR WITHOUT PRIOR FACTORY MUTUAL RESEARCH.
- INSTALLATION SHOULD BE IN ACCORDANCE WITH ANSI/ISA 8.
- INSTALLATION OF INTRINSICALLY SAFE SYSTEMS FOR HAZARDOUS (CLASSIFIED) LOCATION AND THE NATIONAL ELECTRICAL CODE (JASNEPA 73).
- A SIMPLE APPARATUS IS A DEVICE WHICH WILL NOT GENERATE OR STORE MORE THAN 1.2V, 3.1A, 250V RMS OR 20VUL.
- EXAMPLE: SWITCHES, THERMOCOUPLES, ETC. OR IT’S V.
- THE MAXIMUM CABLE LENGTH BETWEEN THE SIMPLE APPARATUS AND THE HAND HELD CALIBRATOR IS 50FT.
- THE HAND HELD CALIBRATOR IS INSTALLED ON A SIMPLE APPARATUS FOR USE ONLY WITH USER RTD PROBE. SEE NOTES 7, 8, & 9.

IMPORTANT:

Dimensions within oval and notes identified with ** require mandatory inspection.

INSTALLATION DIAGRAM, HAND HELD CALIBRATOR, FM IS CL.1, DIV.1, Groups A,B,C,D, VOLTAGE MEASUREMENT, 4 WIRE (ISOLATED) SYSTEM HOOK-UP

DIMENSIONS WITHIN OVAL AND NOTES IDENTIFIED WITH ** REQUIRE MANDATORY INSPECTION.

DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES

TOLERANCES ARE:

- 3 place decimal .000 ± .007
- 2 place decimal .00 ± .015
- 1 place decimal .0 ± .030

INSTALLATION DIAGRAM, HAND HELD CALIBRATOR, FM IS CL.1, DIV.1, Groups A,B,C,D, VOLTAGE MEASUREMENT, 4 WIRE (ISOLATED) SYSTEM HOOK-UP

DO NOT SCALE DRAWING

Scale 1:1 Sheet 5 of 6

REV ECO DESCRIPTION

A 6317 INITIAL RELEASE

AP  8/14/2013
INDEX OF PRESSURE MODULES APPROVED BY FACTORY MUTUAL RESEARCH

Pressure ranges include Vacuum, Compound, Differential, Absolute, and Gauge pressures ranging from 25"H2O to 10,000 PSI, and their equivalents in other engineering units.

WARNING: USE ONLY DURACELL MODEL MN1500 AA ALKALINE PRIMARY CELL BATTERIES;
WARNING: BATTERIES ARE TO BE REPLACED ONLY IN A NON-HAZARDOUS LOCATION;
WARNING: USE ONLY PANASONIC BR1225 LITHIUM COIN BATTERIES FOR REAL TIME CLOCK BACKUP;
WARNING: REFER TO OPERATING MANUAL FOR PROPER LITHIUM BATTERY INSTALLATION INSTRUCTIONS;
WARNING: THE USB/SD ACCESS COVER IS NOT TO BE REMOVED, WHILE IN A HAZARDOUS LOCATION;
WARNING: USE WITH NON-HAZARDED EQUIPMENT.

ASHCROFT ACCESSORY P/N 101C229-01 USB PROTECTION DEVICE, IS INTENDED TO PROTECT THE HHC IN A NON-HAZARDOUS AREA, WHEN USED WITH NON-HAZARDED EQUIPMENT, TO INSURE THE PROTECTION, THE DEVICE (ASHCROFT P/N 101C229-01) IS TO BE INSERTED BETWEEN THE HHC USB PORT AND A NON-HAZARDED APPARATUS.

MAX INPUT VOLTAGE TO BE 5.25 VDC

USB PORT ENTITY PARAMETERS (DIVISIONS/ZONES)

Uo/Uoc = 5.735VDC Po/Po = 179mW

INDEX OF PRESSURE MODULES APPROVED BY FACTORY MUTUAL RESEARCH

PRESSURE MODULE MODELS HM2 FOR USE WITH MODEL PTE2 BASE UNIT; PRESSURE MODULE MODELS AM2 FOR USE WITH MODEL ATE2 BASE UNIT OF THE HAND HELD CALIBRATOR (HHC).

Pressure ranges include Vacuum, Compound, Differential, Absolute, and Gauge pressures ranging from 25"H2O to 10,000 PSI, and their equivalents in other engineering units.

WARNING: USE ONLY DURACELL MODEL MN1500 AA ALKALINE PRIMARY CELL BATTERIES;
WARNING: BATTERIES ARE TO BE REPLACED ONLY IN A NON-HAZARDOUS LOCATION;
WARNING: USE ONLY PANASONIC BR1225 LITHIUM COIN BATTERIES FOR REAL TIME CLOCK BACKUP;
WARNING: REFER TO OPERATING MANUAL FOR PROPER LITHIUM BATTERY INSTALLATION INSTRUCTIONS;
WARNING: THE USB/SD ACCESS COVER IS NOT TO BE REMOVED, WHILE IN A HAZARDOUS LOCATION;
WARNING: USE WITH NON-HAZARDED EQUIPMENT.

ASHCROFT ACCESSORY P/N 101C229-01 USB PROTECTION DEVICE, IS INTENDED TO PROTECT THE HHC IN A NON-HAZARDOUS AREA, WHEN USED WITH NON-HAZARDED EQUIPMENT, TO INSURE THE PROTECTION, THE DEVICE (ASHCROFT P/N 101C229-01) IS TO BE INSERTED BETWEEN THE HHC USB PORT AND A NON-HAZARDED APPARATUS.

MAX INPUT VOLTAGE TO BE 5.25 VDC

USB PORT ENTITY PARAMETERS (DIVISIONS/ZONES)

Uo/Uoc = 5.735VDC Po/Po = 179mW