# NON-HAZARDOUS **LOCATION**

MFC 4150

MFC 4150X

Batteries:(6) AA = = Alkaline battery replacement, (removal/installation), shall only be performed in a non-hazardous area. Do not mix new with used batteries or of different type or manufacture.

Dongle Connector may be used, (Meriam P/N Z4150-10A)

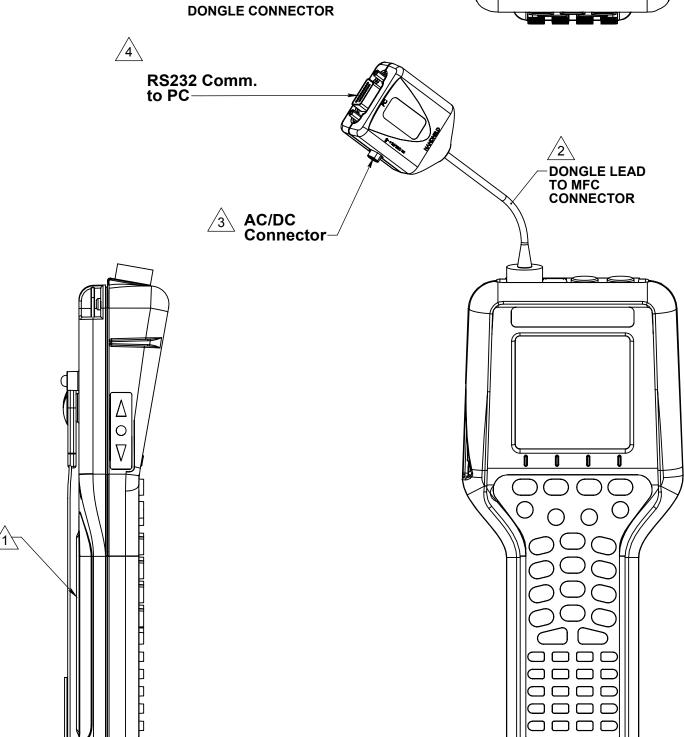
AC/DC adapter may be used, (Meriam P/N 9B000007) Input 110-240 VAC / Output 9VDC === 1A.

RS232 port may be used.

0.7W MAX. normal use with back light on. MFC Input Voltage 9VDC ===

## **Hart Terminals:**

**30 VDC** === Max. Hart Comm.



## **HAZARDOUS LOCATION**

MFC 4150X

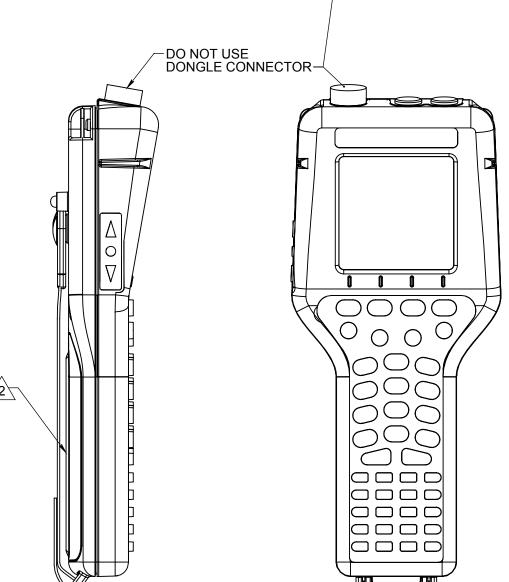
(€ 0539 ⓑ II 1 G EEx ia IIC T4 DEMKO 08 ATEX 0726203

Intrinsically Safe, Exia Class I Div 1 Groups A, B, C, D: T4 -5°C<Ta<+50°C

### **Hart Terminals:**

Connect to Certified Intrinsically Safe circuit only for Hart Comm. Vmax= 30VDC = - Imax= 100mA Ci = 0 Li = 0

Note: Capacitance and Inductance values connected to the Intrinsically safe circuit are not to exceed the values specified by the entity parameters. Use Ccable=60pf/ft and Lcable=.2µH/ft for cable length used.



## **WARNINGS:**

SUBSTITUTING OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY!

To prevent ignition of flammable or explosive atmospheres.

- Disconnect power before servicing.
- Do Not open or service unit including battery compartment, in flammable or explosive atmosphere.
- Do Not mix the old batteries with new or mix batteries from different manufacturers.
- Do Not replace batteries in explosive or hazardous atmosphere.
- Do Not use any battery other than these listed.

Alkaline, Duracell PC1500 (6) AA === Alkaline, Duracell MN1500 Alkaline, Varta 4906

D

9R000052

C

- 3. Dongle Connector Must Not Be Used.
  - a. RS232 comm. port Must Not Be Used.b. AC/DC Adapter Must Not Be Used.

NOTE:

1. Pimax (Hazardous Location Use) = 0.7W MAX. with back light on.

MFC 4150 Series Intrinsic Safety Control Drawing

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MERIAM PROCESS TECHNOLOGIES IS

'. CHAMFER OR DEBURR HOLES: MAX = .010/[0.25] 8. MACHINED FILLET RADIUS: .020[0.5]
9. MACHINED SURFACE FLAT WITHIN .001 IN/IN [0.25mm/mm]; OTHER SURFACE FLAT WITHIN .005 IN/IN [0.127 mm/mm] 10. SURFACE FINISHES: 125 uIN or [3.2 um]
11. CONCENTRICITY MACH. SURF. TIR WITHIN 1/2 SUM OF DIAM.TOLERANCE .001 / [0.025] MIN.
12. TOLERANCES DECIMALS ARE: INCH X.X ± .030 X.X ± 0.8 X.XX ± .010 X.XX ± 0.25 X.XXX ± .005 X.XXX ± 0.13  $X.XX \pm 0.25$   $\angle \pm 0^{\circ}30'$   $X.XXX \pm 0.13$ Solids File:mfc\_12-06\_rev2\_metalclip\_2 MATERIAL:

UNLESS OTHERWISE SPECIFIED: DIM. ARE IN INCH/[MM]

3. MULTIVIEW AND SECTIONAL VIEW DRAWINGS PER ASME Y14.3M-1994

4. APPLICATION OF ENGINEERING DRAWINGS PER ASME Y14.24-1999 5. REMOVE BURRS AND SHARP EDGES: MAX = .020/[0.5]

. DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994

INCH STANDARD AND INCLUDE APPLIED FINISHES DIMENSIONAL LIMITS APPLY BEFORE PLATING/FINISH

**APPROVALS** NAME DAVID HALAN 1-26-07 DRAWN TIM LINT STEVE WALKER 1-26-07 ENG APPR. MFG APPR MFC 4150 HART Communicator COMMENTS:

DOCUMENTED ON 3D CAD with SolidWorks

**Meriam Control Drawing** SIZE DWG. NO. Drawing File:9R000052-A W RELATE

REV 9R000052 Α SCALE: 1:1 WEIGHT: SHEET 1 OF 1

10920 MADISON AVENUE CLEVELAND, OHIO 44102

meriam

a Scott Fetzer company

**DEMKO** APPROVED DRAWING NO REVISION TO DRAWING ALLOWED WITHOUT APPROVAL OF THE STANDARDS ENGINEER

**RELATED DRAWING** 

DO NOT SCALE DRAWING

WHERE USED:MERIAM MANUAL

OPTIONAL:

FINISH: OPTIONAL