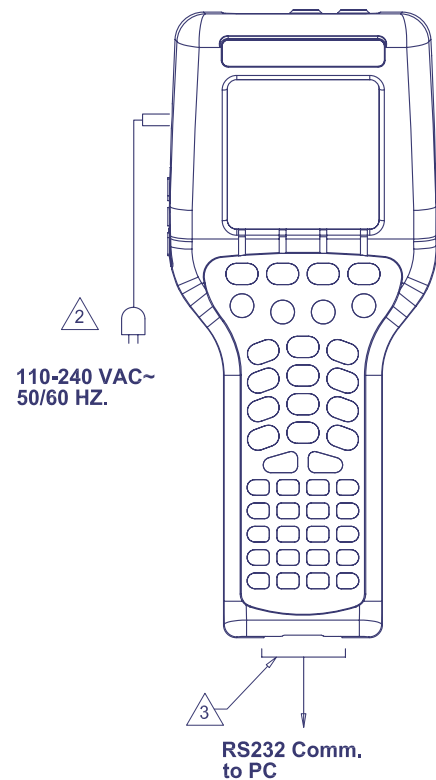
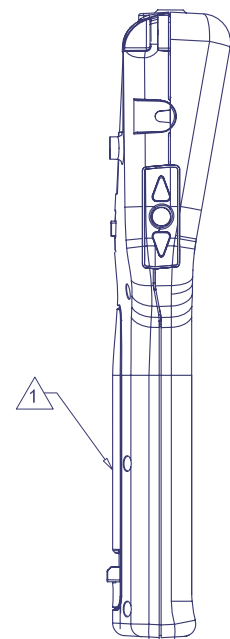
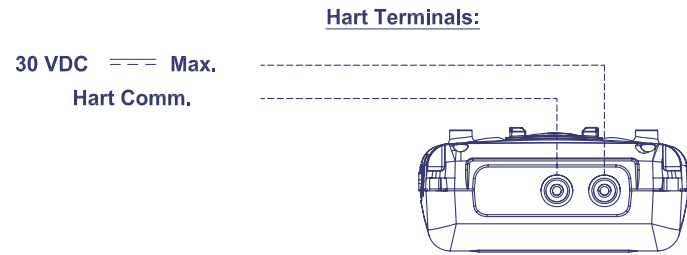


MFC4100-11-X-01
MFC4100-03-X-01 SERIES HART Communicator

REVISIONS HISTORY				
REV.	ECO #	DESCRIPTION	DATE	BY
IR	EO - 5444	INITIAL RELEASE	6/13/03	JS
A	EO - 5920	REDRAWN W/NEW TITLE & CHANGES PER EO	12/8/05	GR
B	EO - 5996	CHANGED AC/DC ADAPTER TO P/N: 9B000007	3/21/06	MC

**NON-HAZARDOUS
LOCATION**

- 1 Batteries:(2) 9VDC ==Alkaline or NiMH, battery replacement,(removal/installation), shall only be performed in a non-hazardous area. Do not mix new with used batteries or of different type of manufacturers.
- 2 AC/DC adapter may be used, (Meriam P/N 9B000007)
- 3 RS232 port may be used.
4. Max.power dissipation is 1.35W MAX.,(DOF downloading),0.5W MAX. normal use.
Input Voltage 9VDC ==



**MFC4100-11-X-01
MFC4100-03-X-01 Series Intrinsic Safety Control Drawing**

RELATED DRAWING
THIS DRAWING AFFECTS
EXPLO CERTIFICATIONS.
NO REVISIONS ALLOWED
WITHOUT APPROVAL OF
CERTIFICATION ENGINEER

**HAZARDOUS
LOCATION**

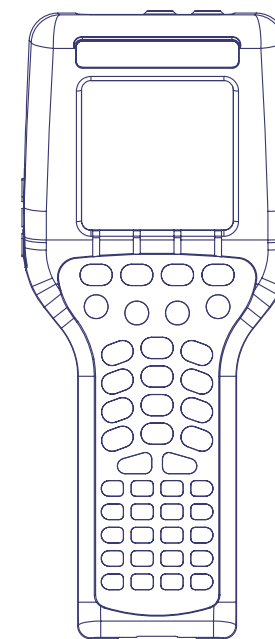
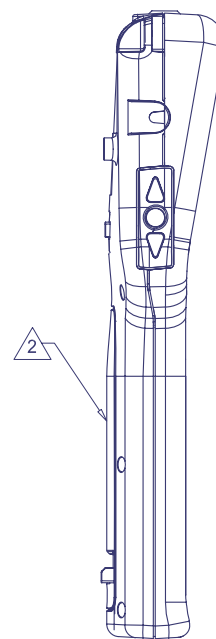
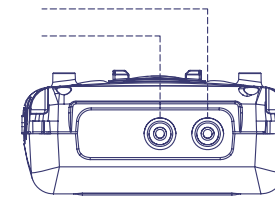
Intrinsically Safe/Securite' Intrinsic'que Class I; Div 1; Groups A, B, C, D: T5

Exia

Hart Terminals:

Connect to Certified Intrinsically Safe circuit only for Hart Comm.
Vmax= 30VDC == Imax= 100mA
Ci =1.24uf Li= 0

Note: Capacitance and Inductance values connected to the Intrinsically safe circuit are not to exceed the values specified by the entity parameters.



WARNINGS/AVERTISSEMENTS:

1. Substituting of Components may impair Intrinsic Safety!

LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE' INTRINSE'QUE;

3. RS232 comm. port must not be used.
4. AC/DC Adapter must not be used.
5. Pimax (Hazardous Location Use) = 0.5W MAX.
6. Consult Manual for additional information regarding Hazardous location use.

7. Do not replace, remove or install batteries or mix new with used batteries or of different type or manufacture.

Ne PAS REMPLACER, ENLEVE OU INSTALLER DES PILES OU MELANGE NOUVEL AVEC LES PILES UTILISEES OU DE TYPE OU DE FABRICANT DIFFERENT.

- 2 To prevent ignition of hazardous atmospheres, batteries must only be changed in an area known to be non-hazardous.

AFIN DE PRE'VENIR,INFLAMMATION D'ATMOSPHE'RES DANGEREUSES, NE CHANGER LES BATTERIES QUE DANS DES EMPLACEMENTS DE'SIGNE'S NON DANGEREUX.

Batteries approved for intrinsic safe location use are:

(2)9VDC == Alkaline (A900614-00006):
Duracell, PC1604 (6LR61), 9.0V,500mAh
Duracell, MN1604 (6LR61), 9.0V,500mAh
Varta, 4922, 9.0V, 550mAh

(2)9VDC == NiMH (A900614-00015):
Ansmann, 5030331, 8.4V 250mAh
Varta, 5622 or V7/8H, 8.4V 150mAh
Li (not rechargeable) (A900614-00009):
UltraLife Batteries, U9LV, 9.0V, 1200mAh

UNLESS OTHERWISE SPECIFIED: DIM. ARE IN INCH/(MM)	
1. DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994 INCH STANDARD AND INCLUDE APPLIED FINISHES	
2. DIMENSIONAL LIMITS APPLY BEFORE PLATING/FINISH	
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(.05)	
7. CHAMFER OR DEBURR HOLES; MAX = .010(.25)	
8. MACHINED FILLET RADIUS;.020(.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 mm
	XX ± .030 XX ± 0.8
	XXX ± .010 XXX ± 0.25
	XXXX ± .005 XXXX ± 0.13
MATERIAL: ;	
OPTIONAL:	
FINISH:	
OPTIONAL:	

APPROVALS		
	NAME	DATE
DRAWN	GREG ROTENBERG	12-6-05
CHECKED	JOHN DUBAY	00-00-01
ENG APPR.	RAY MOLNAR	12-6-05
MFG APPR.		
Q.A.		

meriam
process technologies
a Scott Fetzer company

10920 MADISON AVENUE
CLEVELAND, OHIO 44102

TITLE:
**MFC HART Communicator
Meriam Control Drawing**

SIZE C	DWG. NO. 900030-61003	REV B
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
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COMMENTS:
DOCUMENTED ON 3D CAD with SolidWorks.
Solid's File:
Drawing File:900030-61003
WHERE USED:MFC PRODUCTS
DO NOT SCALE DRAWING