

REV	DESCRIPTION	BY	DATE	ECO
A	INITIAL RELEASE	CAR	10/28/03	DEM-069

ELECTRONIC METER REGISTER NON-HAZARDOUS AREA

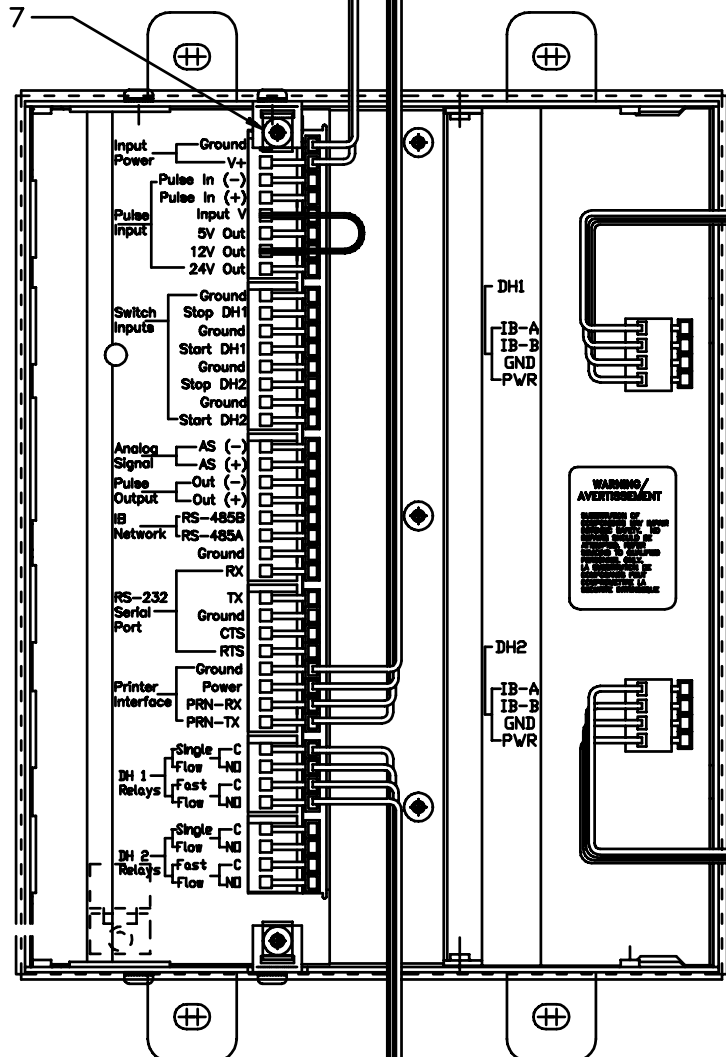
Ex II (1) G [EEx ia] IIA

EMR3 (IB)
INTERCONNECTION BOX
8458 SERIES
CERTIFICATE NO.:
DEMKO 02 ATEX 0204107

BARRIER GROUND
SEE NOTE 7

12 OR 24 VDC
POWER
AND
COMMON

SLIP
OR
ROLL
PRINTER



FLOW
CONTROL
VALVES

HAZARDOUS AREA

INTRINSICALLY SAFE (I.S.) APPARATUS

Ex II 1 G EEx ia IIA

EACH INTRINSICALLY SAFE DEVICE IS CONNECTED TO
GROUND BY AN INFALLIBLE CIRCUIT.

EMR3 (DH)
DISPLAY HEAD
8456 SERIES
CERTIFICATE NO.:
DEMKO 02 ATEX 0119557

SEE NOTES 1, 2, 3 AND 4

SEE NOTES 1, 2, 3 AND 4

EMR3 (DH)
DISPLAY HEAD
8456 SERIES
CERTIFICATE NO.:
DEMKO 02 ATEX 0119557

Certified Product
No changes permitted
without reference to the
"Notified Body (NB)"

NOTES:

1. EACH CABLE RUN (OR WIRING) USED TO CONNECT I.S. DEVICES TO THE IB MUST NOT EXCEED A RATED CAPACITANCE OF 328 pf/METER OR 100 pf/FOOT.
2. EACH CABLE RUN MUST NOT EXCEED A RATED INDUCTANCE OF 0,656 μ H/METER OR 0,2 μ H/FOOT.
3. THE L/R RATIO OF THE CABLE MUST NOT EXCEED 238 μ H/OHM.
4. THE TOTAL CABLE CAPACITANCE, COMBINING ALL OF THE CABLE RUNS USED TO CONNECT THE INTRINSICALLY SAFE DEVICES TO THE ASSOCIATED APPARATUS, MUST NOT EXCEED 15,0 μ F.
5. FOR EACH IB INSTALLED, THE MAXIMUM NUMBER OF I.S. APPARATUS CONNECTED CAN NOT EXCEED A TOTAL OF 2.
6. NON-HAZARDOUS AREA APPARATUS WHICH IS UNSPECIFIED EXCEPT THAT IT MUST NOT BE SUPPLIED FROM OR CONTAIN, UNDER NORMAL OR ABNORMAL CONDITIONS, A SOURCE OF POTENTIAL WITH RESPECT TO EARTH IN EXCESS OF 250V RMS OR 250V dc.
7. CONNECT THE BARRIER GROUND TO THE EARTH GROUND BUS AT THE POWER DISTRIBUTION PANEL WITH #12 AWG (OR LARGER) CONDUCTOR.

FOR ADDITIONAL DETAILS, REFERENCE THE INSTALLATION INSTRUCTIONS.

WARNING: IN INSTALLATION AND USE OF THIS PRODUCT, COMPLY WITH ALL ELECTRICAL CODES. IN ADDITION, TURN OFF POWER AND TAKE OTHER NECESSARY PRECAUTIONS DURING INSTALLATION, SERVICE AND REPAIR TO PREVENT PERSONAL INJURY, PROPERTY LOSS AND EQUIPMENT DAMAGE.

WARNING: DISCONNECT ALL POWER BEFORE MAKING ANY CONNECTIONS TO PREVENT DEATH, SERIOUS INJURY, EXPLOSION, OR ELECTRICAL SHOCK. MONITOR MUST NEVER BE OPERATED UNLESS THE FRONT COVER IS CLOSED OVER THE BARRIER TERMINALS IN THE INTRINSICALLY SAFE AREA.

DO NOT SCALE DRAWING				
	NAME	DATE	NEXT GRP.	
DESIGNER	C.ROUTHIER	10/28/03	ASSEMBLY	
PROJECT	B.ANDREW	10/28/03	FORM NO	
MATERIAL	SIMSBURY, CONNECTICUT 06070 U.S.A.			
NOTICE - THIS DOCUMENT IS THE PROPERTY OF THE VEEDER-ROOT COMPANY AND IS NOT TO BE DISCLOSED, REPRODUCED IN WHOLE OR IN PART, OR USED FOR MANUFACTURE BY ANYONE WITHOUT VEEDER-ROOT'S WRITTEN CONSENT.				
REFERENCE MFG. SPEC. VRS 81005 WHERE IT IS APPLICABLE	SYSTEM WIRING DIAGRAM ATEX EMR3			
UNSPECIFIED TOLERANCES +/- 0.005	SIZE	DRAWING NUMBER	REV.	STATUS
	D	331940-004	A	REL
	SCALE	NONE	SHEET	1 OF 1