REVISION HISTORY					
Rev.	ECO No.	Description:	Approved:		Date:
A	**004493**	**Initial release**	**PC**	**KC**	**05/22/20**

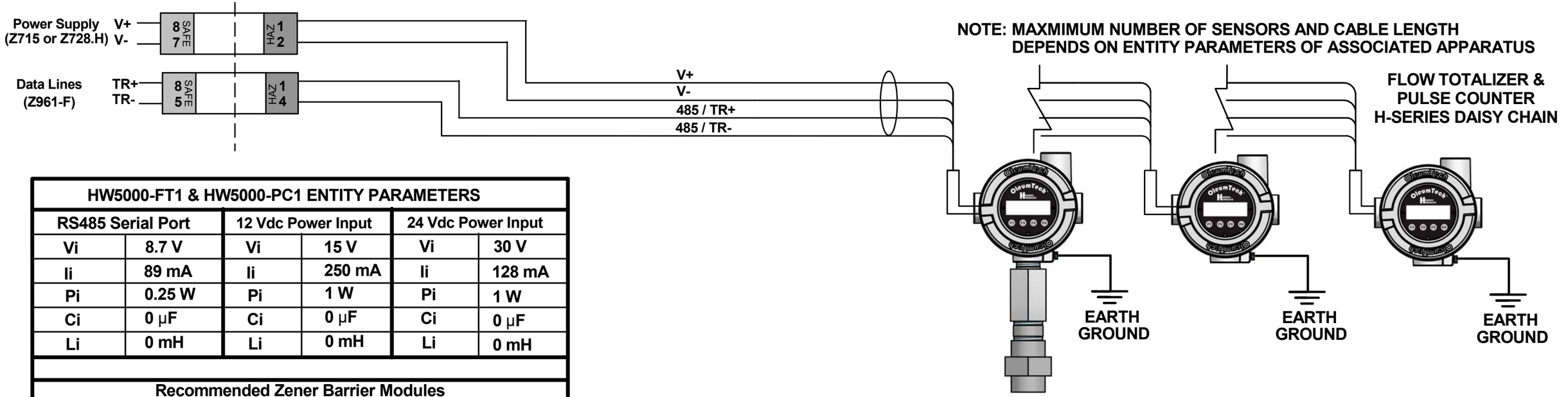
NOTES: UNLESS OTHERWISE SPECIFIED

1. **Minimum operating voltage is 5.8V.**
2. **INSTRUCTIONS. The selected barrier shall be approved with Intrinsically Safe circuits for Hazardous Location Group and Zone as appropriate for the application and installed in accordance with manufacturer's installation instructions.**
3. **Electronic equipment connected to the Associated Apparatus must not use or generate more than 250 Vrms with respect to earth ground.**
4. **Installations shall comply with the latest edition of the National Electrical Code (ANSI/NFPA 70) and the Canadian Electrical Code (CEC (C 22.1)) and IEC 60079-14.**
5. **All cables must be 24 AWG (0.56 mm SWG) or heavier.**
6. **Installation shall be in accordance with ANSI/ISA RP 12.06.01, Installation of Intrinsically Safe Systems for Hazardous (Classified) Locations.**

NON HAZARDOUS AREA

HAZARDOUS AREA

CLASS I DIVISION 1, GROUP A, B, C, D T4
Ex ia IIC T4 Ga
CLASS I ZONE 0, AEx ia IIC T4 Ga
AMB TEMP: -40 °C ≤ Tamb ≤ 70 °C



HW5000-FT1 & HW5000-PC1 ENTITY PARAMETERS					
RS485 Serial Port		12 Vdc Power Input		24 Vdc Power Input	
Vi	8.7 V	Vi	15 V	Vi	30 V
Ii	89 mA	Ii	250 mA	Ii	128 mA
Pi	0.25 W	Pi	1 W	Pi	1 W
Ci	0 µF	Ci	0 µF	Ci	0 µF
Li	0 mH	Li	0 mH	Li	0 mH

Recommended Zener Barrier Modules					
RS485 Serial Port		12 Vdc Power Input		24 Vdc Power Input	
PEPPERL+FUCHS	Z961-F	PEPPERL+FUCHS	Z715	PEPPERL+FUCHS	Z728.H

PARAMETER NOTES:

1. **Power supply and RS485 data lines must be wired to the intrinsic safe barrier separately with minimum insulation thickness of 0.25 mm.**
2. **Unless otherwise known, the cable capacitance of 60pF/ft (197 pF/m) and 0.20 µH/ft (0.66 µH/m) can be used to calculate the cable parameters.**

CONTROLLED DOCUMENT
CHANGES TO THIS DOCUMENT REQUIRES AGENCY APPROVAL

OleumTech
CORPORATION
FOOTHILL RANCH, CA 92610

Approvals:	Date:	Title:
Drawn by: K. C.	05/22/2020	**IS CONTRAL DRAWING, PULSE COUNTER TRANSMITTER, H SERIES**
Materials:		
Engineer: K. C.	05/22/2020	Size: B
Finish:		Document No.: **09-0225-001**
Checked: P. C.	05/22/2020	Scale: NONE

Rev.: **A**
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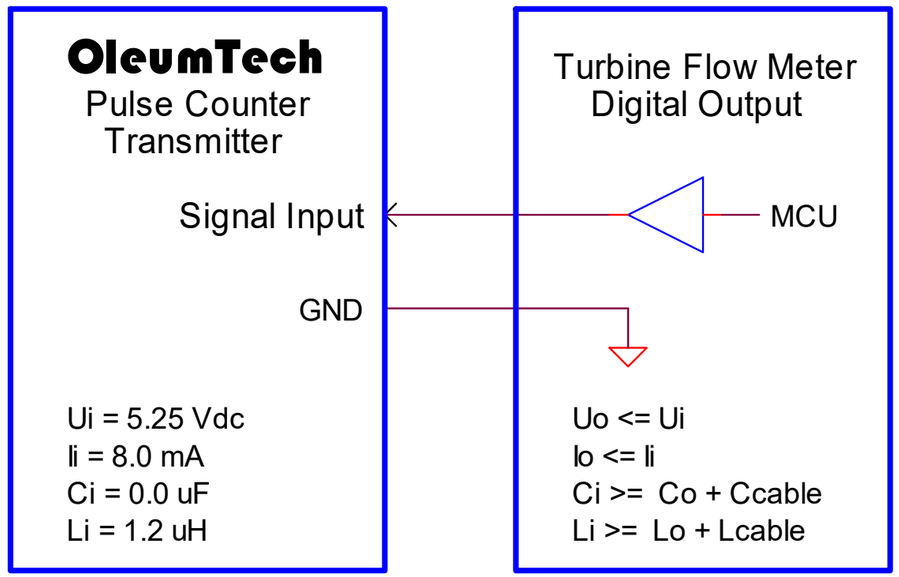
HAZARDOUS (CLASSIFIED) LOCATION

CLASS I DIVISION 1, GROUP A, B, C, D T4
Ex ia IIC T4 Ga
CLASS I ZONE 0, AEx ia IIC T4 Ga



Notes:

1. Third party Turbine Flow Meter digital output may be attached to the Pulse Counter that meets the ntrinsic Safety Entity concept, which allows the interconnection of two Intrinsically Safe devices with entity parameters not specifically examined in combination as a system when: Ui >= Uo, Ii >= Io, Ci >= Co +Ccable, Li >= Lo + Lcable.

2. Unless otherwise known, a cable capacitance of 60 pF/ft (197pF/m) and 0.20 uH/ft (0.66 uH/m) can be used to calculate the cable parameters.

3. Installlation must be in accordance with ANSI/ISA-RP12.6, and the National Electrical Code, NFPA 70 Article 504 or CEC Part 1, Appendix F.

TITLE: IS CONTRAL DRAWING, PULSE COUNTER TRANSMITTER, H SERIES		
Size: B	Document No.: 09-0225-001	Rev.: A
Scale: NONE		Sheet: 2 OF 2

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