CSA-D-IS Installation Instructions, MVD Transmitters

For installations approved by the Canadian Standards Association
Model 2200S 2-Wire Installation

Model 505 adapter-barrier with sensor-mounted Model 2200S transmitter

(Hazardous Area
Class I, Div 2, Groups A,B,C,D
Class II, Div 1, Groups E,F,G

Refer to sensor tag for complete hazardous area classification.

Entity parameters for Div. 1, Groups C, D and Div. 2, Groups A, B, C, and D.

<table>
<thead>
<tr>
<th>2-WIRE I.S. AND NON-INCIDENT 2200S ENTITY PARAMETERS</th>
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<tbody>
<tr>
<td>max 28 VDC</td>
</tr>
<tr>
<td>max 120 mA</td>
</tr>
<tr>
<td>max 0.84 W</td>
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<tr>
<td>C1 2200pF</td>
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<tr>
<td>L1 30μH</td>
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</tbody>
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TERMINALS MAY BE CONNECTED IN EITHER POLARITY

ASSOCIATED APPARATUS PARAMETER LIMITS

Ug = |U|
Ig = |I|
Pg = |P|
×Co = Ccable + C11 + C12 + ... + Cn
×Lo = Lcable + L11 + L12 + ... + Ln

*The total Ci is equal to the sum of all Ci’s of all devices on the network. Ccable is the total capacitance of all cable on the network.
*The total Li is equal to the sum of all Li’s of all devices on the network. Lcable is the total inductance of all cable on the network.

If the electrical parameters of the cable are unknown, then the following values may be used:
Cable Capacitance × 10μF/m
Cable Inductance × 8μH/m

This device must not be connected to any apparatus which uses or generates more than 2500V rms with respect to earth ground.

Micro Motion mass flowmeter system connection for intrinsically safe operation

Electronics: MODEL 505 LEVEL SHIFTING POWER SUPPLY AND 2200S

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