

ENTITY PARAMETERS for RSD-GW-Ex2.CN

Table 1

Terminals	Vt(V)	It(mA)	Groups	Ca(uF)	La(uH)
Male connector on side of housing	5.8	400	A-G	3.0	3.0


NOTES:

- ① The Entity Concept allows interconnection of intrinsically safe apparatus with associated apparatus not specifically examined in combination as a system when the approved values of Vt and It of the associated apparatus are less than or equal to Vmax and Imax of the intrinsically safe apparatus and the approved values of Ca and La of the associated apparatus are greater than Cc+Ccable and Ll+Lcable respectively for the intrinsically safe apparatus.
- ② Wiring methods must be in accordance with the National Electrical Code, ANSI/NFPA 70, Article 504 or 505. Additional installation information can be found in ANSI/ISA-RP 12.6.
- ③ WARNING: Substitution of components may impair intrinsic safety.
- ④ If fiber optic cable is provided with a metal shield, it must be connected to a dedicated intrinsic safety ground in the nonhazardous location and tied back in the hazardous location or be connected to a ground in the hazardous location and tied back in the nonhazardous location.
- ⑤ The glass fibers must have a minimum diameter of 6um.
- ⑥ Alternate Model Number : FM approved Allen-Bradley 1797-RPA
- ⑦ Alternate Model Number : FM approved Allen-Bradley 1797-RPFM
- ⑧ Alternate Model Number : FM approved Allen-Bradley 1797-TP*
- ⑨ Alternate Model Number : FM approved Allen-Bradley 1797-ACNR15
- ⑩ The ambient operating temperature (Tamb) for this system is -20°C to 70°C.
- ⑪ ControlNet Ex Tap must be connected directly to Module (No additional cable may be connected).
- ⑫ Total Coax Trunk Cable length is limited to 1,000 meters (3280ft) with up to 2 ControlNet Ex Taps connected and to 250 meters (820ft) with the maximum allowed ControlNet Ex Taps of 48. For ControlNet Ex Taps between 2 and 48 use: 1,000m (3280ft) - 16.3m (53.4ft) x (number of tapes -2) to find maximum allowed cable length. The following types of Coax Trunk Cable are allowed: Belden Wire Type 1189A, 3092A or 3092A Blue. In addition to these cable types, the following specification can be followed to allow additional types:

Cable Impedance = 75ohm +/- 3ohm	Cable Attenuation	0.5MHz ≥ 0.95dB/100m	10MHz ≥ 1.86dB/100m
Cable Capacitance ≤5.94nF per 100m	{-20 to +70°C}	0.2MHz ≥ 0.93dB/100m	5MHz ≥ 1.39dB/100m
Cable Resistance ≥9.08ohm per 100m		1MHz ≥ 1.07dB/100m	20MHz ≥ 2.73dB/100m
		2MHz ≥ 1.16dB/100m	50MHz ≥ 4.33dB/100m
- ⑬ Must be FM approved.
- ⑭ Power supplies are suitable for mounting in a Cl. I, Div. 1, Groups B-D or Cl. I, Zone 1, Groups IIB + H2.
- ⑮ The maximum number of Gateways RSD-GW-Ex2.CN that can be connected to one system is 47.
- ⑯ The maximum number of Copper Fiber Adapters RSD-CFA-Ex.CN that can be connected to one system is 47.

Dieses Dokument enthält sicherheitstechnische Angaben. Es darf nicht ohne Absprache mit dem Normenfachmann geändert werden!

This document contains safety-relevant information. It must not be altered without the authorization of the norm expert!

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