

File E338066

Project 5105344.1195860

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REPORT

ON

PROCESS CONTROL EQUIPMENT FOR USE IN HAZARDOUS LOCATIONS
(QUZW, QUZW7)

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Analogue Signal Converter Isolator ACT20P Series for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations

Models ACT20P-CI-VO-S, ACT20P-CI-VO-P, ACT20P-CI-VO-P-S, ACT20P-CI-VO-P-P, ACT20P-CI-CO-S, ACT20P-CI-CO-P, ACT20P-CI-CO-P-S, ACT20P-CI-CO-P-P, ACT20P-CI-2CO-S, ACT20P-CI-2CO-P, ACT20P-CI-2CO-P-S, ACT20P-CI-2CO-P-P, ACT20P-2CI-2CO-12-S, ACT20P-2CI-2CO-12-P, ACT20P-2CI-2CO-12-P-S, ACT20P-2CI-2CO-12-P-P.

GENERAL:

These devices shall comply with ordinary locations File E501171-D1000, issued date 2018-09-25, Measuring, Testing and Signal-generation Equipment, covering for this manufacturer and with the following description. Should the Procedure File E501171-D1000, issued date 2018-09-25 be withdrawn, labeling under this Procedure must be discontinued until authorization to resume is received. In the case of any discrepancy between this File and File E501171-D1000, issued date 2018-09-25, this file has precedence. When used in hazardous environments corresponding to Class I, Division 2, the device must be installed in an ultimate enclosure where the internal compartment is only accessible by use of a tool.

These devices are considered Open-Type Analogue Signal Converter, which can connect with 2- or 3- wire transmitter or current source signal. The input and output circuits and the voltage supply are completely electrically isolated. The input signal is converted into a DC current or voltage value. The signal 0/4 -20mA is isolated and transferred through output side. The product should be supplied by 20-30VDC power independently and they are three ports isolation between power supply. Input and output.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USL have been investigated using requirements contained in:

UL121201, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations, Edition 9, Revised on Date 31 August, 2018.

Products designated CNL have been investigated using requirements contained in:

CSA C22.2 No. 213-17, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations, Edition 3, Issued Date 15 September, 2017

ELECTRICAL RATING:

Cat. No.	Supply	Input		Output		Temperat ure Code
		Current Range	Signal input	Voltage	Current	
ACT20P-CI-VO-S	20-30 Vdc, 60 mA	0~20 mA or 4~20 mA	2- or 3-wire transmitter, current source	0~10 V or 2~10 V	/	T5
ACT20P-CI-VO-P						
ACT20P-CI-VO-P-S						
ACT20P-CI-VO-P-P						
ACT20P-CI-CO-S	20-30 Vdc, 60 mA	0~20 mA or 4~20 mA	2- or 3-wire transmitter, current source	/	0~20 mA or 4~20 mA	T5
ACT20P-CI-CO-P						
ACT20P-CI-CO-P-S						
ACT20P-CI-CO-P-P						
ACT20P-CI-2CO-S	20-30 Vdc, 75 mA	0~20 mA or 4~20 mA	2- or 3-wire transmitter, current source	/	0~20 mA or 4~20 mA	T5
ACT20P-CI-2CO-P						
ACT20P-CI-2CO-P-S						
ACT20P-CI-2CO-P-P						
ACT20P-2CI-2CO-12-S	20-30 Vdc, 100 mA	0~20 mA or 4~20 mA	current source	/	0~20 mA or 4~20 mA	T5
ACT20P-2CI-2CO-12-P						
ACT20P-2CI-2CO-12-P-S						
ACT20P-2CI-2CO-12-P-P						

Insulation coordination:

Rated Insulation voltage: 300V

Pollution severity : 2

Environmental Rating:

Ambient Temperature (Surrounding Air Temperature) Range: $-20^{\circ}\text{C} \leq \text{Tamb} \leq 60^{\circ}\text{C}$

Nomenclature:

ACT20P	-	2CI	-	2CO	-	12		P	-	S
1		2		3		4		5		6

1: Product series:

ACT20P

2: Input signal:

CI: Type with one channel of current input signal
2CI: Type with two channels of current input signal
VI: Type with one channel of voltage input signal

3: Output signal:

CO: type with one channel of current output signal
2CO: type with two channels of current output signal
VO: type with one channel of voltage output signal

4: Variants Width:

Blank: 12.5mm width, for models except for ACT20P-2CI-2CO series
12: 12.5mm width, only for ACT20P-2CI-2CO series

5. Din rail bus power connector:

Blank: Normal type
P: Type support Din rail bus power connector

6: Input/Output connector type:

S: Type with screw connector
P: Type with push-in connector