DELTAV AI PLUS

Product Data Sheet

KC3010X1-BA1 12P6762X042

16-channel HART analog input

INPUT CHANNELS	INPUT SIGNAL	DIGITAL PROTOCOL	LOCAL BUS SUPPLY
16	**4–20 mA**	**HART**	**12 V DC, 150 mA**

Emerson KC3010X1-BA1 12P6762X042 is an AI Plus card for DeltaV distributed I/O. Its sixteen 4–20 mA input channels combine analog current acquisition with HART communication, allowing process values and compatible transmitter information to enter the control configuration through the same channel connections.

01 TECHNICAL DATA

Input channels	16
Input signal	4–20 mA
Digital protocol	HART
Local bus supply	12 V DC, 150 mA
Bussed field supply	24 V DC, 500 mA
Field circuit rating	24 V DC, 30 mA/channel
Terminal key position	A6
Operating temperature	-40 to +70 °C
Shock resistance	10 g, 11 ms half-sine
Vibration displacement	1 mm peak-to-peak, 2–13.2 Hz

02 ADDITIONAL PRODUCT DATA

Vibration acceleration	0.7 g, 13.2–150 Hz
Relative humidity	5–95%, non-condensing
Corrosion severity	ISA-S71.04-1985 Class G3
Explosion protection	II 3G Ex nA [ic] IIC Gc

03 PRODUCT FUNCTION

The card uses a 12 V DC local bus rated at 150 mA and a 24 V DC bussed field supply rated at 500 mA. Its field circuit is rated at 24 V DC and 30 mA per channel, with A6 terminal-block keying. The operating range is -40 to +70 °C, with Class G3 airborne-contaminant resistance and non-condensing humidity from 5 to 95%.

04 SYSTEM COMPATIBILITY

Allocate the local-bus and bussed-field power separately using the card ratings. Keep the channel signal specification distinct from the field-circuit supply rating, and configure the appropriate input or output type in DeltaV before checking the connected loops.

05 REFERENCE

Emerson KC3010X1-BA1 ATEX146, November 2017

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