DELTAV AO PLUS

Product Data Sheet

KC3011X1-BA1 12P6749X012

16-channel HART analog output

OUTPUT CHANNELS	OUTPUT SIGNAL	DIGITAL PROTOCOL	LOCAL BUS SUPPLY
16	**4–20 mA**	**HART**	**12 V DC, 160 mA**

Emerson KC3011X1-BA1 12P6749X012 is a DeltaV AO Plus card with sixteen 4–20 mA HART output channels. It delivers analog control signals while supporting HART communication on compatible field circuits, combining multichannel output handling with the DeltaV I/O carrier and its keyed termination arrangement.

01 TECHNICAL DATA

Output channels	16
Output signal	4–20 mA
Digital protocol	HART
Local bus supply	12 V DC, 160 mA
Bussed field supply	24 V DC, 400 mA
Field circuit rating	17 V DC, 23 mA
Terminal key position	A5
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 IIC Gc

03 PRODUCT FUNCTION

The local bus rating is 12 V DC at 160 mA, while bussed field power is rated at 24 V DC and 400 mA. The field circuit rating is 17 V DC at 23 mA, and the specified terminal-block key is A5. Environmental ratings include -40 to +70 °C ambient temperature, Class G3 airborne contaminants and 5–95% non-condensing relative humidity.

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 KC3011X1-BA1 ATEX148, November 2017

AMIKON PRODUCT SUPPORT
+86-18020776786 INFO@AMIKON.CN AMIKONG.COM