TRUSTED TMR

Product Data Sheet

T8480

Forty-channel analog output module

ANALOG OUTPUTS	POWER GROUPS	RECOMMENDED OUTPUT	CONTINUOUS OUTPUT RANGE
40	**5 x 8 channels**	**4 to 20 mA**	**1 to 22 mA**

ICS Triplex T8480 is a forty-channel analog output module for Trusted TMR installations. It provides voted current outputs arranged in five groups of eight channels, with channel monitoring and fault reporting for safety-related analog field control.

01 TECHNICAL DATA

Analog outputs	40
Power groups	5 x 8 channels
Recommended output	4 to 20 mA
Continuous output range	1 to 22 mA
Backplane voltage	20 to 32 V DC
Backplane power	22 W
Field voltage	18 to 32 V DC
Maximum field current	0.9 A
OFF-state leakage at 24 V	350 µA maximum
Calibration accuracy at 25 °C	±0.1% of full scale

02 ADDITIONAL PRODUCT DATA

Overall accuracy at 0-60 °C	±0.25% of full scale
Step response	<50 ms to 1% final value, 1-20 mA step
Standby-swap bump	±350 µA maximum for 7 s maximum
Fault-condition bump	±10 mA maximum for 50 ms maximum
Operating temperature	0 to +60 °C

03 PRODUCT FUNCTION

The recommended signal span is 4-20 mA within a continuous range of 1-22 mA. Calibration accuracy is ±0.1% of full scale at 25 °C, and overall accuracy is ±0.25% across 0-60 °C. A 1-20 mA step reaches within 1% of its final value in less than 50 ms; the manual separately specifies standby-swap and fault-condition transient limits.

04 SYSTEM COMPATIBILITY

Provide a 20-32 V DC backplane supply with a 22 W power budget and an 18-32 V DC field supply. Check each load against the manual load-resistance curve at the minimum available field voltage, allowing for all field wiring resistance.

05 DOCUMENT BASIS

ICS Triplex manufacturer documentation. Selected source pages: 1, 5, 7, 9, 10, 13, 14, 37, 38.

AMIKON PRODUCT SUPPORT

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