OVATION HIGH-DENSITY THERMOCOUPLE INPUT

Product Data Sheet

1C31116G05

Thermocouple input personality module

DOCUMENTED ELECTRONICS PARTNER	CHANNELS IN THE DOCUMENTED COMBINATION	DOCUMENTED MILLIVOLT RANGES	REQUIRED HIGH-DENSITY BASE
5X00594G01	**16 thermocouple inputs**	**+/-20 mV, +/-50 mV, +/-100 mV**	**5X00497 four-slot Ovation I/O base**

Emerson 1C31116G05 is the personality interface identified for the Ovation high-density thermocouple input combination with 5X00594G01 electronics. In that documented assembly it supports sixteen thermocouple channels and the selected ±20, ±50 or ±100 mV input range.

01 VERIFIED TECHNICAL DATA

Documented electronics partner	5X00594G01
Channels in the documented combination	16 thermocouple inputs
Documented millivolt ranges	+/-20 mV, +/-50 mV, +/-100 mV
Required high-density base	5X00497 four-slot Ovation I/O base
Base terminal block	53-position compression style, rows A/B/C
Thermocouple signal connections	A+ and A-
Ungrounded-sensor shield termination	D strip
Grounded-sensor shield termination	At the sensor; not at the module
Base single-conductor range	22 to 12 AWG
Base signal-terminal torque	3 to 4 lbf in; 0.33 to 0.45 N m

Values follow the applicable manufacturer documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Base common-strip positions	16 per module; up to 2 terminations per position
Base-to-DIN-rail clamp torque	33 to 35 lbf in; 3.73 to 3.95 N m

03 DOCUMENTED USE SETTINGS

Thermal Electricity Production and Regional Heat Supply: Gas-Fired Power Generation.

Municipal Water Supply and Industrial Wastewater Treatment: Drinking Water Treatment.

Renewable Electricity and Low-Carbon Energy Development: Solar Power Generation.

04 SYSTEM COMPATIBILITY

Use the valid 5X00594G01/1C31116G05 combination and the associated four-slot base when applying the high-density thermocouple arrangement. The older personality-family designation in the reference is not a statement that the passive interface itself performs A/D conversion.

05 PRODUCT EVIDENCE

Emerson OW351_R1150 I/O Reference Manual, March 2014, section 25.3 to 25.6

AMIKON PRODUCT SUPPORT

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