



### Main

Range of product	Modicon M238 logic controller
Product or component type	Analog input module
Analogue input number	2
Input level	Low level
Analogue input type	Thermocouple - 200...760 °C thermocouple J differential Thermocouple - 270...1370 °C thermocouple K differential Thermocouple - 270...400 °C thermocouple T differential
Cross talk	<= 2 LSB

### Complementary

Range compatibility	Advantys OTB Twido
Analogue input resolution	12 bits
LSB value	0.1 °C thermocouple thermocouple T 0.3 °C thermocouple thermocouple J 0.325 °C thermocouple thermocouple K
Permissible continuous overload	+/- 7.5 V thermocouple
Input impedance	>= 1 MOhm thermocouple
Sampling duration	<= 200 ms
Acquisition period	200 ms per channel + 1 controller cycle time
Measurement error	0.2 % +/- 5 °C of full scale 25 °C
Temperature coefficient	+/-0.006 %FS/°C
Repeat accuracy	+/-0.5 %FS
Non-linearity	+/- 0.2 %FS
Total error	+/-1 %FS
Type of cable	Shielded cable
Insulation between channel and internal logic	Photocoupler

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Supply	External supply
[Us] rated supply voltage	24 V DC
Supply voltage limits	20.4...28.8 V
Electrical connection	1 removable screw terminal block
Current consumption	30 mA 24 V DC external 60 mA 5 V DC internal
Product weight	0.19 lb(US) (0.085 kg)

## Environment

Dielectric strength	2500 V between the I/O and internal logic 500 V between the I/O and the external supply circuit
Width	0.93 in (23.5 mm)
Depth	2.76 in (70 mm)
Height	3.54 in (90 mm)

## Ordering and shipping details

Category	22531 - PLCs, TWIDO, TWD
Discount Schedule	PC12
GTIN	00785901680383
Nbr. of units in pkg.	1
Package weight(Lbs)	0.35000000000000003
Returnability	Y
Country of origin	FR

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1039 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Available

## Contractual warranty

Warranty period	18 months
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