Product data sheet
Characteristics

NTSACI0802X
Analog Input Module, 8 In, Current, 1/2 wires, Loop Power, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Analog input module
Mandatory accessory	NTSXBA0200H base NTSXTB18_0_H terminal block
Product compatibility	NTSN.....
Range compatibility	Logic/Motion controller - Modicon M262 Modicon M580 Third party
Device application	Industrial application
Analogue input number	8
Operating mode	Isochronous/Asynchronous

Complementary

Analogue input type	Current +/- 20 mA Current 0...20 mA Current 4...20 mA
Input wiring mode	1 or 2 wires
Analogue input resolution	15 bits + sign
Permitted overload on inputs	30 V at 50 mA maximum current
Input impedance	250 Ohm + internal current protector 10 Ohm typical
Sampling duration	1.595 Ms per module
Input protection type	Over current / miswiring protection per channel for current input
Sensor power supply protection	Over current protection per channel Short circuit protection on loop power supply per channel
Input diagnostic	Underflow error per channel Overflow error per channel Broken wire error per channel Hardware error per channel Calibration error per channel Loop power supply error per channel Internal field power supply error per channel
LSB value	0.61 µA, +/-20 mA 0.61 µA, 0...20 mA 0.49 µA, 4...20 mA
HART tolerance	Yes
Type of cable	Shielded cable
Temperature drift	± 0.004 % FS/ °C
Measurement error	<= 0.1 % FS 25 °C <= 0.3 % FS - 20…60 °C
Non-linearity	<= 0.01 % FS, analogue input type: voltage/current
Common mode rejection	90 dB

Sensor power supply	19.2…30 V DC Loop power
Power supply type	Bus power from power supply bus (24 Vdc) Field power from power supply field (24 Vdc)
Rated operational voltage limits	20.4...28.8 V DC
Typical current consumption	36 MA at 24 V DC on the Bus current 24 MA at 24 V DC on the internal field current minimum 208.8 MA at 24 V DC on the internal field current maximum
Power dissipation in W	2.3 W maximum at 24 V DC
Maximum cable distance between devices	Shielded cable: <1000 m for current input
Isolation between channels and bus	1500 V AC
Isolation between channels and field pwr	No
Isolation between field power and bus	1500 V AC
Hot swapping fallback	Yes
Local signalling	1 LED green for module operating (RUN) 1 LED per channel green for channel diagnostic 1 LED red for module error (ERR)
Housing colour	Grey
Mounting support	Base
Height	121 Mm
Width	30 Mm
Depth	69 Mm
Net weight	0.085 Kg

Environment

IP degree of protection	IP20
Marking	CE UKCA CULus RCM
Product certifications	CE[RETURN]UKCA[RETURN]CULus[RETURN]RCM[RETURN]Merchant Navy - EU RO MR (pen
Standards	EN/IEC 61131-2 EN 61010-2-201 UL 61010-2-201 IACS E10 EN/IEC 61000-6-5 EN/IEC 61850-3 EN/IEC 60079-0 EN 50155 EN 50121-4 EN 50121-5
Directives	2014/30/EU - electromagnetic compatibility 2014/34/EU - ATEX directive 2014/35/EU
Ambient air temperature for operation	-20…60 °C
Ambient air temperature for storage	-40…85 °C
Relative humidity	5…95 % without condensation
Operating altitude	0...2000 m without derating 2000...5000 m with derating
Pollution degree	2
Vibration resistance	1 g without accessory 2 g with accessory
Shock resistance	15 g for 11 ms (with and without accessory)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.000 Cm
Package 1 Width	13.700 Cm
Package 1 Length	8.300 Cm
Package 1 Weight	71.88 G
Unit Type of Package 2	S01
Number of Units in Package 2	6

Package 2 Height	15.000 Cm
Package 2 Width	15.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	631.000 G

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	27 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	6.53909640857326
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.13206711764906573
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00020461731623481758
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	20.211086378297914
Carbon footprint of the use phase [B2, B3, B4, B6]	20 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.25539441758518355
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	27
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	3aa0514d-2622-4110-8487-1454d6972d0e
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised