Product data sheet
Characteristics

NTSAMI0800K
Analog Input Module + Base, 8 In, Current, Voltage, 2 Wires, Modicon Edge I/O NTS



Main

Range of product	Modicon Edge I/O NTS
Product or component type	Analog input module kit
Kit composition	NTSAMI0800 module NTSXBA0100H base
Mandatory accessory	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 Voltage +/- 10 V Voltage 0...10 V Voltage +/- 5 V Voltage 0...5 V Voltage 1...5 V
Input type	Single ended
Input wiring mode	1 or 2 wires
Analogue input resolution	15 bits + sign
Permitted overload on inputs	30 V maximum voltage 30 V at 50 mA maximum current
Input impedance	> 10 MOhm in voltage mode 100 Ohm + internal current protector 10 Ohm typical
Sampling duration	1.615 Ms per module
Input protection type	Over current / miswiring protection per channel for current input Over voltage / miswiring protection per channel for voltage input
Input diagnostic	Underflow error per channel Overflow error per channel Broken wire error per channel Hardware error per channel
LSB value	0.31 mV, +/- 10 V 0.31 mV, 0...10 V 0.16 mV, +/- 5 V 0.16 mV, 0...5 V 0.13 mV, 1...5 V 0.61 µA, +/- 20 mA 0.61 µA, 0...2 mA 0.49 µA, 4...20 mA

Type of cable	Shielded cable
Temperature drift	± 0.0057 % FS/ °C
Measurement error	<= 0.3 % FS 25 °C <= 0.5 % FS in - 30...60 °C
Non-linearity	<= 0.01 % FS, analogue input type: voltage/current
Common mode rejection	90 dB
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	34.6 MA at 24 V DC on the Bus current 27.6 MA at 24 V DC on the internal field current minimum 33.1 MA at 24 V DC on the internal field current maximum
Power dissipation in W	2.1 W maximum at 24 V DC
Maximum cable distance between devices	Shielded cable: <200 m for voltage inputs 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	Top hat type TH35-7.5 rail conforming to IEC 60715 Top hat type TH35-15 rail conforming to IEC 60715
Height	116.6 Mm
Width	15 Mm
Depth	81 Mm
Net weight	0.073 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 2000...5000 m with derating
Pollution degree	2
Environmental characteristic	Gas resistant C3 and G2
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	3.400 Cm
Package 1 Width	9.000 Cm
Package 1 Length	12.000 Cm
Package 1 Weight	105.000 G
Unit Type of Package 2	S01
Number of Units in Package 2	16
Package 2 Height	15.000 Cm
Package 2 Width	15.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	1.925 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	512
Package 3 Height	75.000 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	67.828 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	28 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	5.335316531902574
Carbon footprint of the manufacturing phase [A1 to A3]	5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.10775493005271669
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0001669493889996573
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	22.232195016127704
Carbon footprint of the use phase [B2, B3, B4, B6]	22 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.20837895225269537
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	28
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	66dc73d1-d186-4343-b24e-84507e018951
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised