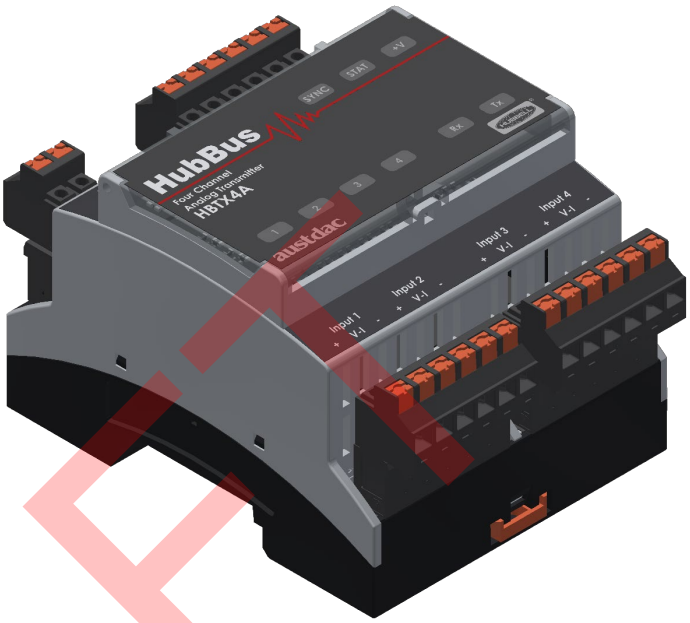
HubBus FOUR CHANNEL ANALOGUE TRANSMITTER TYPE HBTX4A

- Four analogue input channels
- Externally or line powered
- Compact size
- Programmable addresses for analogue and trip points
- Inputs isolated from network



DESCRIPTION

The four-channel analogue transmitter is part of a family of DIN rail mounting modules that transmit to and receive from an Austdac HubBus field bus network. The HBTX4A can be configured to accept either 4-20mA, 0.4-2.0V, 0-20mA or 0-2.0V analogue signals in various combinations on the four independent inputs.

The four analogue inputs are galvanically isolated from the HubBus network port. This isolation allows the HBTX4A to provide highly effective protection of the HubBus network in the event of a wiring fault input sensor failure.

Maintenance and repair are made easier along with the reduced possibility of wiring faults with the use of pluggable connectors which are available with screw or spring cage terminals and horizontal or vertical wire entry. Maintenance is also improved with easy to read status LEDs with common layout across the whole module range which show communication, power, line status and input trip status at a quick glance in addition to a quick open flip top lid to access the programming port.

Any of the HBTX4A parameters can be conveniently configured using the battery powered handheld HubBus Universal Programmer and Tester Type HHP1-H. Along with each analogue input programmed to any HubBus channel address, each analogue input can also have its under range, hysteresis and digital trip channels configured by the user.

CERTIFICATION

- UL61010-1 (Safety) [E471953]
- CAN/CSA-C22.2 No. 61010-1 (Safety) [70189567]
- IEC61000-6-4 (Emissions)
- IEC61000-6-2 (Immunity-Industrial Environments)
- IEC61000-6-7 (Immunity-Functional Safety)
- IEC60068-2-1 & IEC60068-2-2 (Environmental)
- IEC60068-2-6 (Vibration)

SPECIFICATIONS

General	
Name	HubBus Four Channel Analogue Transmitter
Type	HBTX4A
Interface	
Bus channels	Adaptive (up to 2048)
Bus speed	Auto configurable (1.2ms to 4.8ms/pulse)
Bus connection	Galvanically Isolated
RS485	Modbus 2 wire (isolated port)
Configuration	TTL
Physical	
Dimensions	72 (W) x 63 (D) x 90 (H) mm 2.8(W) x 2.5(D) x 3.5(H) inches
Mass	120g / 4.23 ounces
Mounting	DIN EN 60715 / TS35
Ingress protection	IP20
Environment	
Operating Temperature	-20ºC to 50ºC / -4ºF to 122ºF
Operating relative humidity	10% to 90% Non-condensing
Electrical	
Unit load [Externally Powered]	2
Unit load [Line Powered]	10
Power supply voltage	10-48VDC
Power Load	<10mA
Status Indicators	
Modbus Activity	2 front panel LED
Controller Health	1 front panel LED
Power Health	1 front panel LED
Bus Health	1 front panel LED
Input Alarm/Trip Status	4 front panel LED
Analogue Inputs	
Number of inputs	4
Input current range	0-20mA, 4-20mA
Input voltage range	0-2.0V, 0.4-2.0V
Data Resolution	0.01mA / 1mV
Trip Points	5 per input
Trip Level	Above or Below set point with configurable hysteresis

SAFETY DATA

The HBTX4A is not intended for use in safety functions.

The HBTX4A does not provide a safety function, but, as it is on the same bus with other modules which provide safety functions, its failure modes have been assessed.

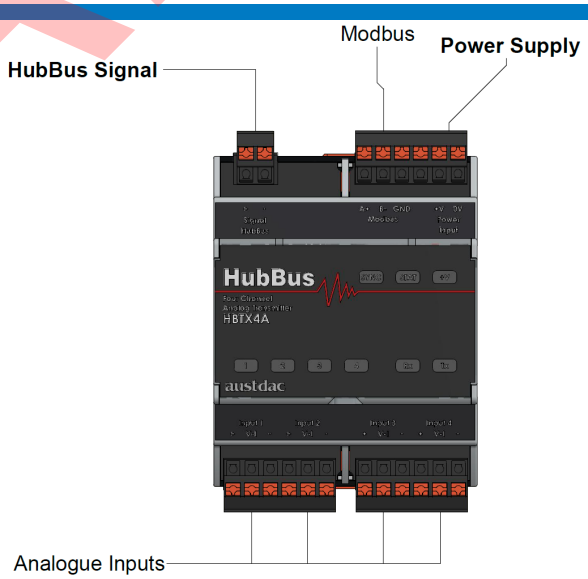
Additionally, the HBTX4A uses a functional safety certified interface module to interact with the HubBus system.

The configuration of the module must be validated not to interfere with any safety function on the system.

Terminals

HBTX4A					
13	+	Input 1	HubBus Signal	Signal+	1
14	V-I			Signal-	2
15	-				
16	+	Input 2			
17	V-I				
18	-				
19	+	Input 3	RS485 Modbus	A+	7
20	V-I			B-	8
21	-			COM	9
22	+	Input 4	N/A		10
23	V-I		Power Input	+V	11
24	-			0V	12

CONNECTION DIAGRAM



ORDERING DETAILS

DESCRIPTION	ORDER CODE
HubBus Four Channel Analogue Transmitter	**HBTX4A**

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