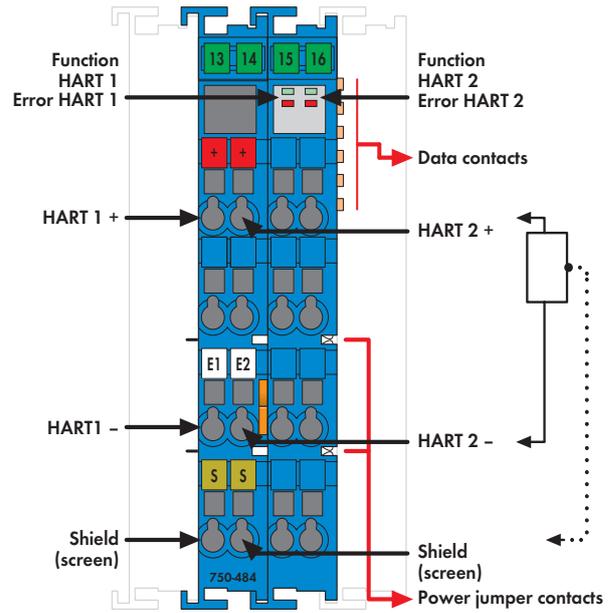


2-Channel Analog Input Module 4-20 mA HART, Ex i

Single-ended (S.E.)



Delivered without miniature WSB markers

The analog input module connects two field-side transformers equipped with a HART interface that are to be used in hazardous environments of Zones 0+1. It supplies the transducers, reads the process values via analog interface and enables HART communication for configuring and importing dynamic variables.

The WAGO-I/O-SYSTEM 750 must be installed either in Zone 2 or in a non-hazardous area.

The 24V supply is derived from the power jumper contacts via multipliers to the field contacts (HART +). The shield (screen) is directly connected to the DIN rail. The measurement input is equipped with current limitation, which limits the current to a max. 25mA. These modules can supply the voltage for 2-wire transducers without dedicated power supply.

Up to 4 HART dynamic variables (PV, SV, TV, QV) per channel can be mapped in the cyclic process image of the coupler or controller (configurable). For HART communication with connected intelligent HART field devices, the HART protocol can be mapped in the cyclic process image of the coupler or controller (configurable).

FDT/DTM device drivers are available for select (programmable) couplers, allowing HART tool routing to the connected HART device.

Note:

Only use the analog input module in connection with the 24VDC Ex i Supply Module!

General information (e.g., installation regulations) on explosion protection is available in the WAGO-I/O-SYSTEM 750 manuals!

Description	Item No.	Pack. Unit
2AI 4-20 mA S.E. HART Ex i	750-484	1
Accessories		
PROFIBUS/HART Gateway DTM	759-360	1
MODBUS TCP/HART Gateway DTM	759-359	1
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see Section 11	

Technical Data	
Number of inputs	2
Current consumption, system voltage typ. (5 VDC)	25 mA
Voltage via power jumper contacts	24 V DC (provided via Ex-i supply U _o = max. 27.3 V)
Transmitter supply	U _v = 16.5 V at 20 mA
Signal current	4 mA ... 20 mA
Overvoltage protection	30 V, reverse polarity protected
Conversion time (typ.)	10 ms
Input filter	parameterizable
Resolution	12 bits
Measuring error (25 °C)	0.2 % of upper range value (non-linearity)
Temperature coefficient	< ± 0.01 % / K of full scale value
Current consumption, power jumper contact typ. (24 VDC)	26 mA + load
Power consumption P _{max.}	1.60 W (with slaves (20 mA))
Power loss P _v	0.62 W (without slaves)
Isolation	U _M = 375 V system/supply
Bit width	2 x 2 bytes data
	2 x 2 bytes data + 2n x 4 bytes data (n = number of dynamic variables)
	2 x 2 bytes data + 6 bytes mailbox
Diagnostics	Wire break, measuring range overrun
HART devices per channel	1 device (single-drop, no multi-drop)
HART modems per channel	1 modem (no multiplex)

