

# TURCK

## PROCESS AUTOMATION

### INTERFACE TECHNOLOGY IME SERIES



**Point to Point! Point to Bus! Bus to Bus!**

# IME interface modules – High efficiency

## IME series – Compact interface modules for galvanic isolation in Ex-areas

Consistently efficient – One term to describe the performance of the IME series made by TURCK. The result speaks for itself. A smart concept reduces wiring, works power efficiently and provides excellent signal repeatability and Ex-values at the same time. These IME features are available for many different applications.

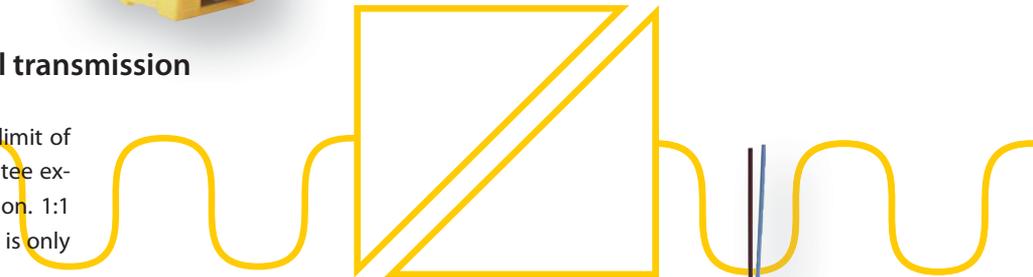


### Features

- Reduced wiring:  
Loop-powered, no separate connection of voltage supply
- Excellent Ex-values:  
New concept reduces transmission losses
- Increased reliability:  
Less components, increased availability
- Reduced power consumption

## Excellent quality of signal transmission

Thanks to an extremely low error limit of only  $< 0.1\%$ , IME modules guarantee excellent quality of signal transmission. 1:1 transmittance, i. e. the input signal is only marginally distorted.



## Best performance with only a few components

- Latest processors and components on board
- Limited number of components = low risk of failure and disturbance on the board
- Less components = better price
- Low power consumption
- High resistance against thermal stress
- Excellent EMC properties



# IME interface modules – High efficiency

## IME series – Excerpt from the product list

Type		Channels	Power supply	Output	Wire break/ short circuit indication	SIL	Features
<b>Binary input/digital input/DI</b>							
IME-DI-22Ex-R/24VDC	NAMUR EN 60947-5-6	2	20...30 VDC	Relais	Yes	SIL2	relay NO
IME-DI-22Ex-T/24VDC	NAMUR EN 60947-5-6	2	20...30 VDC	Transistor	Yes	SIL2	short circuit protected
<b>Binary output/digital output/DO</b>							
IME-DO-11Ex/L	intrinsically safe Ex-i	1	loop powered	-	No	SIL3	power consumption
IME-DO-22Ex/L	intrinsically safe Ex-i	2	loop powered	-	No	SIL3	power consumption
<b>Analogue input/passive/for transmitters with separate power supply/AI</b>							
IME-AI-11Ex-Hi/L	intrinsically safe Ex-i	1	loop powered	0...20 mA	Yes	SIL2	HART® transparent
IME-AI-11Ex-Hi/24 VDC	intrinsically safe Ex-i	1	20...30 VDC	0...20 mA	Yes	SIL3	HART® transparent
<b>Analogue input/active/transmitter power supply for 2-wire transmitters/AIA</b>							
IME-AIA-11Ex-Hi/24VDC	intrinsically safe Ex-i	1	20...30 VDC	4...20 mA	Yes	SIL2	HART® transparent
<b>Analogue output/passive/AO</b>							
IME-AO-11Ex-Hi/L	intrinsically safe Ex-i	1	loop powered	0...20 mA	No	SIL2	HART® transparent
<b>Temperature measuring amplifier/TI</b>							
IME-TI-11Ex-CI/24VDC	intrinsically safe Ex-i	1	20...30 VDC	4...20 mA + DTM	Yes	-	DTM configurable

### Cost savings through loop power

Input 2 connections

Output 2 connections

No separate 24 VDC supply!

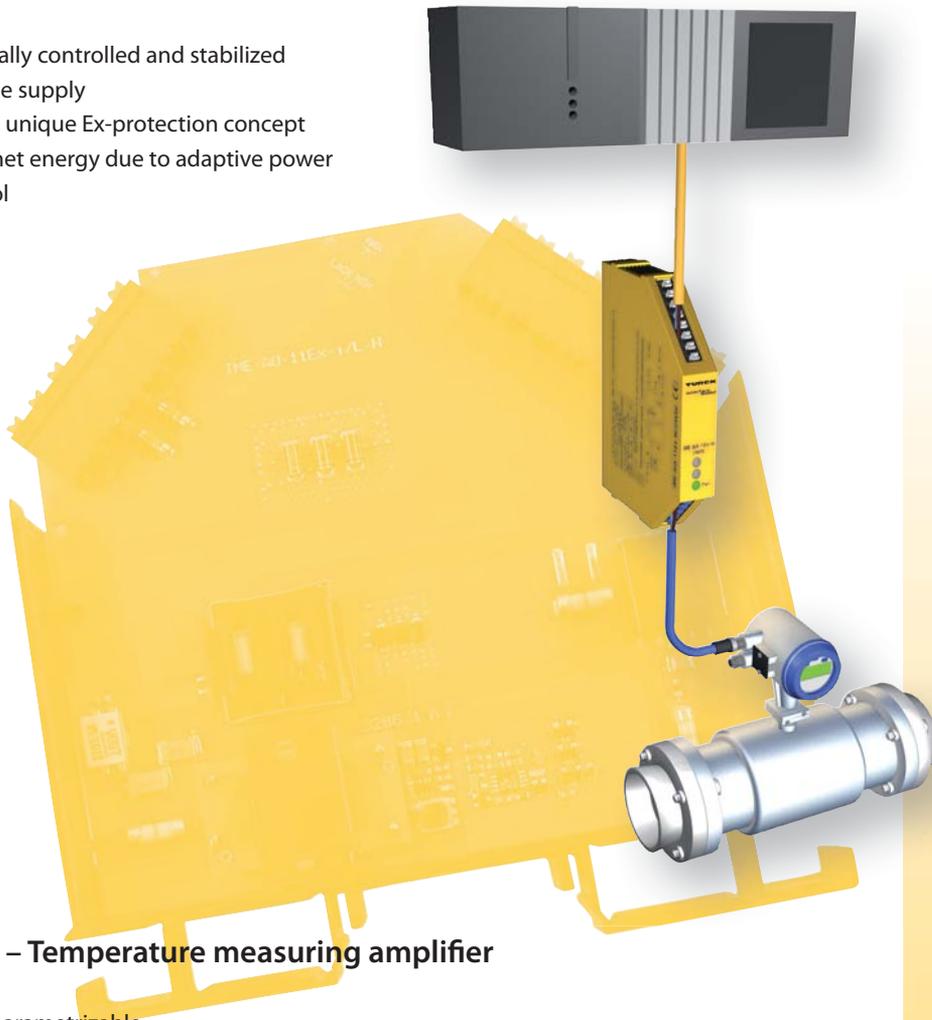
**PRESSURE  
FLOW  
TEMPERATURE  
LEVEL**



## IME-AIA – Isolating transducers: Saving operational costs at the highest level

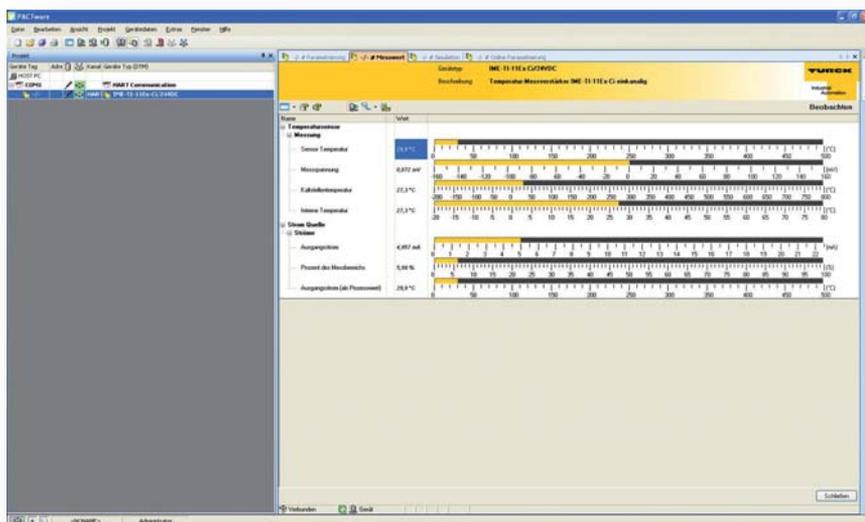
PROCESS  
AUTOMATION

- Internally controlled and stabilized voltage supply
- Novel, unique Ex-protection concept
- High net energy due to adaptive power control



## IME-Ti – Temperature measuring amplifier

- DTM parametrizable
- 2-, 3-, 4-wire PT100/Ni100, thermoelements and millivolt signals
- Russian temperature curves
- HART® transparent



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