

# Modicon Premium automation platform

## TBX distributed analog I/O modules

**Applications**

Distributed analog inputs on Fipio bus



**Type of I/O**

**Type**

**Range**

High level inputs		Temperature probe inputs	Thermocouple inputs
Voltage	Current	Pt 100, Pt 1000, Ni 1000	B, E, J, K, N, R, S, T
± 5 V ± 10 V	0...20 mA 4...20 mA	–	± 20 mV ± 50 mV ± 200 mV ± 500 mV

**Modularity**

4 channels

**Isolation**

~ 500 V ms between channels  
 ~ 500 V ms between channels and earth  
 ~ 1500 V ms between supply and channels  
 ~ 1500 V ms between supply and earth

**Acquisition period for the complete module**

400 ms in 50 Hz mode (4 channels)  
 340 ms in 60 Hz mode (4 channels)

**Resolution**

12 bits + sign

**Restitute time**

**Input filtering**

1<sup>st</sup> order with user-definable time constant

**Fallback position**

**Type of module**

**TBX AES 400**

**Pages**

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Distributed analog I/O on Fipio bus



Distributed analog outputs on Fipio bus



Voltage/current inputs

Voltage	Current
0...5 V ± 10 V	0...20 mA 4...20 mA

6 channels

No isolation between input channels

- ~ 1500 V ms between input channels and output channels
- ~ 1500 V ms between supply and channels
- ~ 1500 V ms between supply and earth

42.4 ms

12 bits (including sign)

Voltage/current outputs

Voltage	Current
± 10 V	4...20 mA 0...20 mA

2 channels

~ 1500 V ms between output channels

11 bits + sign

11 bits

4 ms

Voltage/current outputs

Voltage	Current
± 10 V	4...20 mA 0...20 mA

11 bits + sign

11 bits

At zero value on internal module fault  
At the last value or at a value defined by the user  
on Fipio communication fault

TBX AMS 620

TBX ASS 200