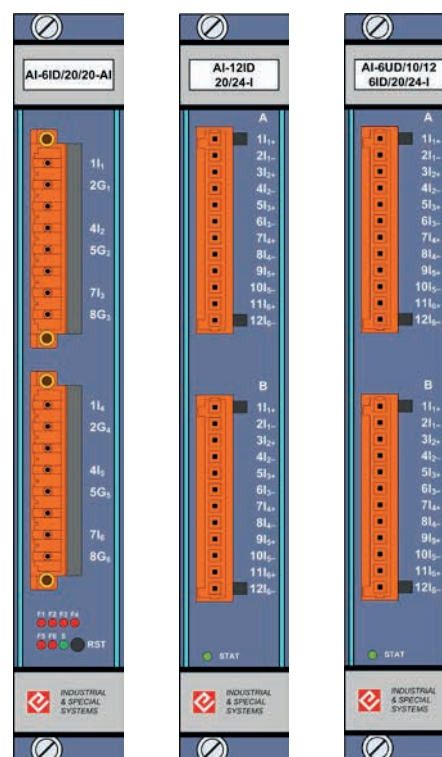


## RTU7M – Industrial Analog Inputs

### General Description

The measurement cards are equipped with their own powerful signal processor for processing the measured signals. In this case, the RTU7M unit serves only as a communication bridge for data transmission. The advantage of these cards is the possibility of using several such cards in one chassis in any positions. After consultation with the manufacturer, it is also possible to design inputs other than those shown here.

These cards are designed to measure DC voltage or current signals for general use in industrial applications. They are manufactured with different numbers of inputs that are galvanically isolated from the rest of the unit. Depending on the type of card, individual inputs can be galvanically isolated from each other. The measuring range is parameterizable in the SW RTU User Center. If the measured value is outside the parameterized measurement range, the measurement values are transmitted as invalid.



### Technical Specification

Card	AI-6ID/20/20-AI	AI-12ID/20/24-I	RTU7M AI-6UD/10/12-6ID/20/24-I
Inputs number	2 × 3 × I	12 × I	6 × U / 6 × I
Inputs type	Isolated from rest of the unit and from each other, 4 kV for 1 minute	Isolated from rest of the unit, 2.21 kV AC for 1 minute, groups from each other 2.5 kV AC	
Signal processing	Own processor, 16-bit A/D converter		
Nominal voltage range	10 V DC, both polarities		
Voltage inputs overloadability	12 V DC permanently		
Nominal current range	0 ÷ 20 mA DC 4 ÷ 20 mA DC ±20 mA DC		
Current inputs overloadability	24 mA		
Range in RTU UC	0 ÷ 20 mA for measurement 0 ÷ 20 mA 0 ÷ 20 mA for measurement ±20 mA 4 ÷ 20 mA for measurement 4 ÷ 20 mA		
Current inputs impedance	10 Ω	206 Ω	
Voltage inputs impedance	–		364 kΩ
Measurement accuracy (from nominal range)	± 0.3 %	± 0.1 %	
Measurement accuracy (overloaded)	± 0.3 %	± 0.1 %	
Consumption	2.5 W		
Connectors	2 × WAGO 231-308/107-000, part of delivery		
Wire cross-section	0.08 ÷ 2.5 mm <sup>2</sup>		
Position in bus	Any		