



Main

Range of product	Modicon M221
Product or component type	Analogue input cartridge
Product specific application	Hoisting applications
Product compatibility	Modicon M221C
Analogue input number	2

Complementary

Analogue input type	Voltage, input range: 0...10 V Current, input range: 0...20 mA Current, input range: 4...20 mA
Analogue input resolution	12 bits
Permissible continuous overload	40 mA (current) 13 V (voltage)
Input impedance	≥ 1 MOhm (voltage) ≤ 250 Ohm (current)
LSB value	3.91 μ A (current), input range: 4...20 mA 4.88 μ A (current), input range: 0...20 mA 2.44 mV (voltage), input range: 0...10 V
Conversion time	20 ms
Sampling duration	10 ms
Absolute accuracy error	± 1 % of full scale ± 0.1 % of full scale at 25 °C
Temperature drift	± 0.02 %FS/°C
Repeat accuracy	± 0.5 %FS
Non-linearity	± 0.01 %FS
Cross talk	≤ 1 LSB
Type of cable	Twisted shielded pairs cable
Electrical connection	2 screw terminal blocks (pitch 3.81 mm) 1.5 mm ² 3 for inputs
Cable length	≤ 30 m twisted shielded pairs cable (input)
Insulation	Non-insulated between analogue input and internal logic
Height	41 mm
Depth	15 mm
Width	35 mm
Product weight	0.015 kg

Environment

Immunity to microbreaks	10 ms
-------------------------	-------