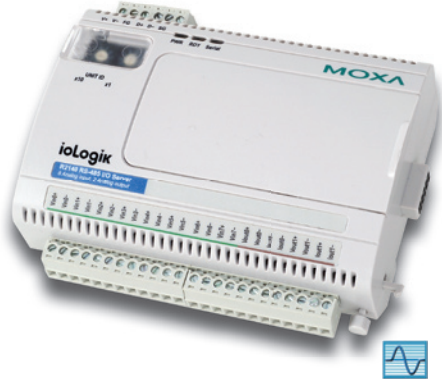


ioLogik R2140

RS-485 remote I/O with 8 analog inputs and 2 analog outputs



- > 8 analog input channels for millivolts (mV), voltage, and current signal with wire-off detection (at 4 to 20 mA)
- > 2-channel analog outputs for voltage, current actuator control
- > 16-bit resolution analog inputs, 12-bit resolution analog output
- > Easy-to-use, quick programming library for VB, VC++, BCB, .NET
- > NIST-Traceability calibration for analog I/O channels
- > Firmware upgradable over RS-485

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.



Specifications

Analog Input

Channels: 8, sink type, 45 VDC, 200 mA
Resolution: 16-bit
I/O Mode: Voltage / Current
Input Range: ±150 mV, ±500 mV, ±5 V, ±10 V, 0 to 20 mA, 4 to 20 mA
Data Format: 16-bit integer
Accuracy:
 ±0.1% FSR @ 25°C
 ±0.3% FSR @ -10 and 60°C
Sampling Rate (all channels):
 10 samples/sec (voltage)
 6 samples/sec (current)
Built-in Resistor for Current Input: 106 ohms
CMR @ 50/60 Hz: 95 dB min.
Isolation: 3K VDC or 2K Vrms

Analog Output

Channels: 2
Resolution: 12 bits
Output Range: 0 to 10 V, 4 to 20 mA
Drive Voltage: 15 VDC for current output
Accuracy:
 ±0.1% FSR @ 25°C,
 ±0.3% FSR @ -10 and 60°C
Zero Drift: ±9 µV/°C
Span Drift: ±25 ppm/°C
Load Resistor: Less than 250 ohms

Pin Assignment

I/O (left to right)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Vin0+	Vin0-	Vin1+	Vin1-	Vin2+	Vin2-	Vin3+	Vin3-	Vin4+	Vin4-	Vin5+	Vin5-	Vin6+	Vin6-	Vin7+	Vin7-	Vout0+	Vout0-	Iout0+	Iout0-	Vout1+	Vout1-	Iout1+	Iout1-

Ordering Information

ioLogik R2140: RS-485 remote I/O with 8 analog inputs and 2 analog outputs
LDP1602: LCD module with 16 x 2 text display and 5 buttons