

# ioLogik E2240

## Active Ethernet I/O with 8 analog inputs and 2 analog outputs



- > 8-channel analog inputs for voltage, current signal
- > 2-channel analog outputs for voltage, current actuator control
- > Instant event messaging by TCP/UDP/email/SNMP-trap
- > Easy-to-use Click&Go™ Logic for local output control
- > PC-based configuration utility and web console
- > Windows/WinCE VB/VC.NET and Linux C APIs
- > I/O control over Modbus/TCP and SNMP protocol
- > NIST-traceable calibration

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



### Introduction

#### Combination of analog input and output

The ioLogik E2240 comes with a combination of analog inputs and

analog outputs in one module, and supports a wide range of sensors and actuators, including pH, conductivity, pressure, flow, and valves.

### Specifications

#### Analog Input

- Channels:** 8 analog inputs with differential input
- Resolution:** 16 bits
- 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 (2's complement)
- Accuracy:**
  - ±0.1% FSR @ 25°C
  - ±0.3% FSR @ -10 and 60°C
- Sampling Rate (all channels):**
  - 10 samples/sec for voltage
  - 6 samples/sec for current
- Input Impedance:** 900K ohms (min.)
- Built-in Resistor for Current Input:** 106 ohms
- CMR @ 50/60 Hz:** 95 dB min.
- Zero Drift:** ±9 µV/°C
- Span Drift:** ±25 ppm/°C
- 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 E2240:** Active Ethernet I/O with 8 analog inputs and 2 analog outputs
- LDP1602:** LCD module with 16 x 2 text display and 5 buttons