Remote I/O Control

IN CONTROL FOR AUTOMATION

duTec

Product Data Sheet: BASIC I/O Series of Remote I/O Controllers

An ethernet or 300 - 38,400 baud RS-422 or RS-485 serial link connects a host computer to the BASIC I/O series. duTec's command set is a superset of the Optomux standard, which is supported by most Third Party MMI and SCADA software packages as well as duTec's Easy I/O. This means that the series can operate on the same network as other compatible hardware and use the same software.

No jumpers are required to set baud rates or communications addresses - these are selected by a push button or from the host via the serial communications link. Baud rates and addresses are indicated by an on board display which also show any diagnostic test failures.

Features

Low Per Point Cost	LCFs for StandAlone Control	Many Third Party Software Packages
Use Analog & Digital I/O	Use Industry Standard Protocol	Needs a Single Power Supply

Applications

Well Monitoring & Control	Pipeline Leak Detection	Pipeline Flow Measurement
Greenhouse Controls	Emergency Shutdown Control	Water/Wastewater Control
Monitoring	Fish Farm Feeding	Tank Farms
HVAC Monitoring & Control	Booster Pump Start/Stop	Intrusion Alert
Weir & Canal Monitoring	Pump Station Control	Power Usage Monitoring & Control

Remote I/O Functions

Available in all BASIC I/O versions

Digital Inputs, ac or dc	Read On/Off state, count, pulse widths, frequency, edge detection
Digital Outputs, ac or dc	Set On/Off state, delayed on, delayed off, single pulse, pulse trains, squarewaves
Analog Inputs, 12 bit	Read levels, temperature (thermocouples, RTDs), running average, frequency
Analog Outputs, 12 bit	Set output levels, waveforms (squarewaves, sawtooths, ramps, triangular

STANDALONE Local Control Functions

Included with BASIC I/O - AD

Logic Gates	AND/NAND/OR/NOR/XOR/XNOR
Analog Compare	A<B, A>B, A<=B, A>=B, A<>B

Analog Math	A+B, A-B, Avg (A+B), Max A or B, Min A or B
Controllers	Dead-band, PID temperature/proportional
Ladder logic	Multiple pre-configured arrangements
Other	State machine, truth table, constants, PWM/time proportional outputs

Specifications

Communications: RS-422/485 at 300 - 38.4KB click here for information on our Ethernet option	**Humidity:** 0-95% (non-condensing)
Temperature: 32-122º F (0-50 ºC); Storage: 0-176º F (-20-80 ºC)	**Power:** 5.4.-5.9Vdc, 250mA + 15-25mA per digital I/O module + 175-200mA per analog I/O module

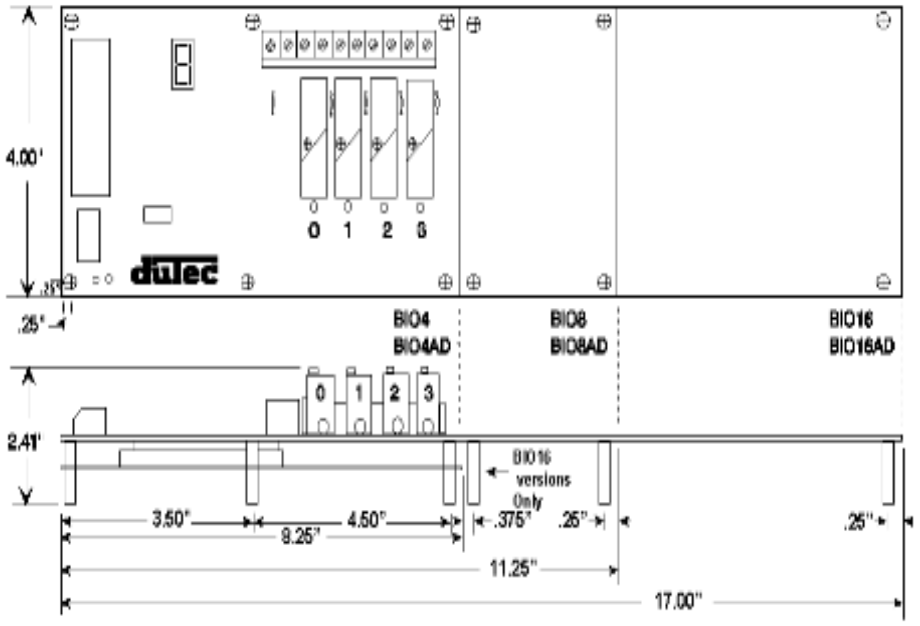

Figure 2: Outline dimensions for BASIC I/O Base Units -- 4, 8, and 16 module sockets.

Ordering Information

BIO4	4 sockets for analog **or** digital modules (not both)
BIO8	8 sockets for analog **or** digital modules (not both)
BIO16	16 sockets for analog **or** digital modules (not both)
BIO4AD	4 sockets for any mix of analog **and** digital modules
BIO8AD	8 sockets for any mix of analog **and** digital modules
BIO16AD	16 sockets for any mix of analog **and** digital modules
PS-BIO	BIO series power supply for operation from 100-240 Vac @ 0.6A

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