

Ideal for Desktop/Laptop/PDA use



DESCRIPTION

The **MicroDAQ BT-26/30** is a multi-function analog and digital I/O product which communicates to the host PC via a Wireless connection. The unit has a 14-bit resolution and is the perfect measurement device for portable, laboratory or classroom use.

Featuring 16 analog inputs, the unit can be used to measure voltage signals from sensors, transducers, accelerometers and much more. It also features four analog outputs (BT-30 model) which can be used as reference voltages and many other applications. The digital I/O is available in 3 sets of 8 channels which can be programmed as inputs or outputs.

The units come supplied with a USB Wireless dongle which plugs into the PC to offer wireless communication. You can achieve a range of up to 10 metres depending on circumstances.

Drivers are provided for the most popular operating systems, as well as for the WindowsCE® family of products including PocketPC2002 and PocketPC2003. This support allows the wireless MicroDAQ range to be controlled directly from a Wireless enabled palm held PC. Each unit is supplied with a WindowsCE API and control panel which is downloaded from a PC to the handheld device. Embedded Visual C++ and embedded Visual Basic examples are supplied.

FEATURES

- Interface: Wireless Connection
- Resolution: 14-bit
- 16 S/E or 8 Diff Analog Input Channels
- 3KHz Sampling Speed
- Onboard 16K FIFO
- 4x Analog Outputs (14-bit)
- 24x Digital I/O lines (3x 8-bit ports)
- I/O Connector: 2x DB25 Male (1 for A/D & 1 for DIO)
- LED indication for power
- Ideal for Laptop/PDA use
- Housing: Plastic ABS with rubber feet
- Operating Temp: 0 to 70°C
- O/S Support for Windows 98/ME/XP/2000 & WinCE (PocketPC2002 & PocketPC2003)
- Includes EDRE SDK, EDRE-Labview, EDRE-Testpoint and WaveView for Windows
- Power: Supplied with a 1A 9VDC external Universal PSU
- Power Consumption: 500mA typ @ 9VDC
- Dimensions: 45(H) x 80(W) x 148(L) mm

Specifications

Analog Inputs (A/D)

Input Characteristics

Input Channels:	16 / 32 Single Ended (Model Dependent)
Input Ranges:	±2.5V ±5V ±10V 0-5V 0-10V
Gain Scale:	1 / 10 / 100
Resolution:	14-bit
Input Coupling:	DC
Max Sampling Rate:	3kHz
Clock Source:	Internal 10MHz
	External – Convert (EXT_CLK)
Gate Source:	External – Convert (EXT_GATE)
Input Impedance:	1M Ohm
System Noise:	±1 LSB

Analog Outputs (D/A)

Output Characteristics

Output Channels:	None / 4 / 8 (Model Dependent)
Output Range:	±10V
Resolution:	14-bit
Full Scale Error:	±2 LSB
Settling Time:	1mS to 0.1% of full scale
Output Drive	±10V @ 5mA
Power-On State:	0V

Digital I/O (DIO)

No. of TTL Lines:	24
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Logic Levels:

Input Low Voltage:	-0.5V to 0.8V
Input High Voltage:	2.0V to 5.0V
Output High Voltage Min:	2.4V
Output Low Voltage Max:	0.45V
Maximum Output Current:	2mA

DB-25M

PA1	14	1	PA0
PA3	15	2	PA2
PA5	16	3	PA4
PA7	17	4	PA6
PB1	18	5	PB0
PB3	19	6	PB2
PB5	20	7	PB4
PB7	21	8	PB6
PC1	22	9	PC0
PC3	23	10	PC2
PC5	24	11	PC4
PC7	25	12	PC6
		13	DGND

Digital I/O

DB-25 (M)

ACH1	14	1	ACH0
ACH3	15	2	ACH2
ACH5	16	3	ACH4
ACH7	17	4	ACH6
ACH9	18	5	ACH8
ACH11	19	6	ACH10
ACH13	20	7	ACH12
ACH15	21	8	ACH14
DAC0	22	9	AGND
DAC2	23	10	DAC1
NC	24	11	DAC3
EXT_TRIG	25	12	NC
		13	EXT_CLK

Analog



BT-26A16-BNC

Ordering Information

Supplied with EDR Enhanced Software & Universal Switch Mode 9V PSU

BT-26A16	Wireless 16 (SE) or 8 (DIFF) Channel 3KHz 14-bit A/D, 24 DIO, USB Wireless Dongle & 2.4 GHz Antenna
BT-26A32	Wireless 32 (SE) or 16 (DIFF) Channel 3KHz 14-bit A/D, 24 DIO, USB Wireless Dongle & 2.4 GHz Antenna
BT-30A16	Wireless 16 (SE) or 8 (DIFF) Channel 3KHz 14-bit A/D, 4 x 14-bit DACS, 24 DIO, USB Wireless Dongle & 2.4 GHz Antenna
BT-30A32	Wireless 32 (SE) or 16 (DIFF) Channel 3KHz 14-bit A/D, 8 x 14-bit DACS, 24 DIO, USB Wireless Dongle & 2.4 GHz Antenna

Also available with BNC Connectors

BT-26A16-BNC	As above with isolated BNC's
BT-30A16-BNC	As above with isolated BNC's