

Ideal for Desktop/Laptop/PDA use



## FEATURES

- Connects via RS232 or RS485
- 24 TTL Level DIO lines
- 16 or 32 Opto Isolated Digital Inputs (model dependent)
- I/O Connectors: 3x DB25 (SRL-62-16); 5x DB25 (SRL-62-32)
- LED indication for power connection
- Ideal for portable/laptop applications
- Housing: Plastic ABS with rubber feet
- Operating Temp: 0 to 70°C
- Power: 110mA (USB-62-16); 120mA (USB-62-32) max
- O/S Support for Windows 98/ME/XP/2000 & WinCE (PocketPC2002 & PocketPC2003)
- Includes EDRE SDK, EDRE-Labview, EDRE-Testpoint and WaveView for Windows
- Dimensions (SRL-62-16) 45(H) x 80(W) x 148(L) mm (SRL-62-32) 65(H) x 80(W) x 148(L) mm



## DESCRIPTION

The **MicroDAQ SRL-62** is a protected digital I/O product which communicates to the host PC via a RS-232 or RS-485 (dependent on model) serial connection. Based on the industry standard 82C55 PPI device. It features 16/32 Opto Isolated inputs (depending on model) and 24 TTL level digital I/O lines. The I/O can be programmed in banks of 8 as inputs or outputs.

Two interface versions are available for the serial MicroDAQ range, these include RS-232 models and RS-485 models. The RS-232 models are best suited for short distances (up to 30 metres) or for use with hand held PC's such as PDA's.

The RS-485 models allow for long distance data transmission (up to 1200 metres). These RS-485 models are ideally suited for process control applications in a plant or industrial environment, which require long cable runs.

An easy-to-use configuration panel allows for easy setup of the devices. 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 serial MicroDAQ range to be controlled directly from a palm held PC with a serial port. Each unit is supplied with a WindowsCEAPI and control panel which is downloaded from a PC to the handheld device. Embedded Visual C++ and embedded Visual Basic examples are supplied.

The SRL-62 with it's Opto Isolated inputs eliminates the need for additional cables and Opto Isolation modules. The SRL-62 is powered by a regulated 9VDC @ 1A Universal Input PSU, which is supplied with the unit.

## Specifications

<b>Digital I/O(DIO)</b>	
No. of TTL Lines:	24
Logic Levels:	
Input Low Voltage:	-0.5V to 0.8V
Input High Voltage:	2.0V
Output High Voltage Min:	2.4V
Output Low Voltage Max:	0.45V
Maximum Output Current:	2mA
<b>Optically Isolated Input Characteristics</b>	
Optically Isolated Inputs:	16, 32(depending on model number)
Frequency Response:	Up to 10 kHz (Computer and software dependent)
Logic Levels:	
0V to 3V:	Logic 0
3.1V to 24V	Logic 1
Isolation Voltage:	2500Vrms
Input Current:Continuous:	30mA
Peak:	1A (Pulse 300ms, 2% Cycle)
Max forward current [LED]:	50mA

## Ordering Information

<b>Supplied with EDR Enhanced Software, 1.8 Mtr. USB Cable &amp; Universal Switch Mode 9V PSU</b>	
SRL-62-16-RS232	RS232 24 Channel DIO Unit with additional 16 Opto Isolated Digital Inputs - incl 2Mtr RS232 Cable; Universal Switch Mode 9V PSU
SRL-62-16-RS485	RS485 24 Channel DIO Unit with additional 16 Opto Isolated Digital Inputs - incl ADPT-9; Universal Switch Mode 9V PSU
SRL-62-32-RS232	RS232 24 Channel DIO Unit with additional 32 Opto Isolated Digital Inputs - incl 2Mtr RS232 Cable; Universal Switch Mode 9V PSU
SRL-62-32-RS485	RS485 24 Channel DIO Unit with additional 32 Opto Isolated Digital Inputs - incl ADPT-9; Universal Switch Mode 9V PSU

### DIGITAL I/O (0-23)

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

Front Lower DB25 Connector for 16 & 32 channel unit

### OPTO-ISOLATED I/P (0-7)

I/P CHAN 0(-)	14	1	I/P CHAN 0(+)
I/P CHAN 1(-)	15	2	I/P CHAN 1(+)
I/P CHAN 2(-)	16	3	I/P CHAN 2(+)
I/P CHAN 3(-)	17	4	I/P CHAN 3(+)
I/P CHAN 4(-)	18	5	I/P CHAN 4(+)
I/P CHAN 5(-)	19	6	I/P CHAN 5(+)
I/P CHAN 6(-)	20	7	I/P CHAN 6(+)
I/P CHAN 7(-)	21	8	I/P CHAN 7(+)
*COM(-)	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Front Upper DB25 Connector for 16 channel unit & Front Centre DB25 Connector for 32 channel unit  
\* Internally set by factory if specified!

### OPTO-ISOLATED I/P (8-15)

I/P CHAN 8 (-)	14	1	I/P CHAN 8 (+)
I/P CHAN 9 (-)	15	2	I/P CHAN 9 (+)
I/P CHAN 10(-)	16	3	I/P CHAN 10(+)
I/P CHAN 11(-)	17	4	I/P CHAN 11(+)
I/P CHAN 12(-)	18	5	I/P CHAN 12(+)
I/P CHAN 13(-)	19	6	I/P CHAN 13(+)
I/P CHAN 14(-)	20	7	I/P CHAN 14(+)
I/P CHAN 15(-)	21	8	I/P CHAN 15(+)
*COM(-)	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Rear Upper DB25 Connector for 16 channel unit & Rear Centre DB25 Connector for 32 channel unit  
\*Internally set by factory if specified!

### OPTO-ISOLATED I/P (16-23)

I/P CHAN 16(-)	14	1	I/P CHAN 16(+)
I/P CHAN 17(-)	15	2	I/P CHAN 17(+)
I/P CHAN 18(-)	16	3	I/P CHAN 18(+)
I/P CHAN 19(-)	17	4	I/P CHAN 19(+)
I/P CHAN 20(-)	18	5	I/P CHAN 20(+)
I/P CHAN 21(-)	19	6	I/P CHAN 21(+)
I/P CHAN 22(-)	20	7	I/P CHAN 22(+)
I/P CHAN 23(-)	21	8	I/P CHAN 23(+)
*COM(-)	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Front Upper DB25 Connector for 32 channel unit  
\*Internally set by factory if specified!

### OPTO-ISOLATED I/P (24-31)

I/P CHAN 24(-)	14	1	I/P CHAN 24(+)
I/P CHAN 25(-)	15	2	I/P CHAN 25(+)
I/P CHAN 26(-)	16	3	I/P CHAN 26(+)
I/P CHAN 27(-)	17	4	I/P CHAN 27(+)
I/P CHAN 28(-)	18	5	I/P CHAN 28(+)
I/P CHAN 29(-)	19	6	I/P CHAN 29(+)
I/P CHAN 30(-)	20	7	I/P CHAN 30(+)
I/P CHAN 31(-)	21	8	I/P CHAN 31(+)
*COM(-)	22	9	NC
NC	23	10	NC
NC	24	11	NC
NC	25	12	NC
	13		NC

Rear Upper DB25 Connector for 32 channel unit  
\*Internally set by factory if specified!