Ideal for Desktop/Laptop/PDA use



The MicroDAQ SRL-69 is a Specialized 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 8/16 Reed Relay Outputs, 8/16 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 MicroDAO 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

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 Pocket-PC2003. 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 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.

The SRL-69 with it's Reed Relay Outputs eliminates the need for additional cables and Relay modules. The SRL-69 is powered by a Regulated 9VDC @ IA Universal Input PSU, which is supplied with the unit.

FEATURES

- Connects via RS232 or RS485
- 24 TTL Level DIO lines
- 8 or 16 Reed Relay Digital Outputs (model dependent)
- 8 or 16 Opto Isolated Digital Inputs (model dependent)
- I/O Connectors: 3x DB25 (SRL-63-16); 5x DB25 (SRL-63-32)
- LED indication for power connection
- Ideal for portable/laptop applications
- Housing: Plastic ABS with rubber feet
- Operating Temp: 0 to 70°C
- Power: +/- 180mA (69-16), 250mA (69-32)
- 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-69-16) 45(H) x 80(W) x 148(L) mm (SRL-69-32) 65(H) x 80(W) x 148(L) mm

Specifications

Specifications			
Digital I/O(DIO)			
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		
Optically Isolated Input Charac	teristics		
Optically Isolated Inputs:	8, 16 (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 300rms, 2% Cycle)		
Max forward current [LED]:	50mA		
Reed Relay Characteristics			
Number of channels:	8, 16 (depending on model number)		
Relay Contact Data			
Contact Form:	Form A (SPST)		
Rated Power:	20W (max)		
Switching Voltage:	200VDC (max) (DC or peak AC)		
Switching Current:	1A (max) (DC or peak AC)		
Carry Current:	1.25A (max) (DC or peak AC)		
Contact Resistance:	0.15 Ohm (Static); 0.2 Ohm (Dynamic)		
Breakdown Voltage:	320 VDC (min) (Across Contacts)		
	4200 VDC (min) (Contact to Coil)		
Switching Time:	0.5mS		
Release Time:	0.1mS		

Ordering Information

Supplied with EDR Enhanced Software, 1.8 Mtr. USB Cable & Universal Switch Mode 9V PSU SRL-69-16-RS232 RS232 24 Channel DIO Unit with additional 8 Opto Isolated Digital Inputs & 8 Reed Relay Digital Outputs - incl 2Mtr RS232 Cable; Universal Switch Mode 9V PSU SRL-69-16-RS485 RS485 24 Channel DIO Unit with additional 8 Opto Isolated Digital Inputs & 8 Reed Relay Digital Outputs - incl ADPT-9; Universal Switch Mode 9V PSU SRL-69-32-RS232 RS232 24 Channel DIO Unit with additional 16 Opto Isolated Digital Inputs & 16 Reed Relay Digital Outputs - incl 2Mtr RS232 Cable; Universal Switch Mode 9V PSU SRL-69-32-RS485 RS485 24 Channel DIO Unit with additional 16 Opto Isolated Digital Inputs & 16 Reed Relay Digital Outputs - incl ADPT-9; Universal Switch Mode 9V PSU



SRL-69-32 Front



DIGITAL I/O (0-23) REED RELAY O/P (0-7)

DIGITAL I/O (0-2				
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 fo 16 & 32 channel unit

RELAY 0 (2)	14	1	RELAY 0 (1)
RELAY 1 (2)	15	2	RELAY 1 (1)
RELAY 2 (2)	16	3	RELAY 2 (1)
RELAY 3 (2)	17	4	RELAY 3 (1)
RELAY 4 (2)	18	5	RELAY 4 (1)
RELAY 5 (2)	19	6	RELAY 5 (1)
RELAY 6 (2)	20	7	RELAY 6 (1)
RELAY 7 (2)	21	8	RELAY 7 (1)
NC	22	9	NC
NC	23	10	NC

Front Upper DB25 Connector for 16 channel unit & Front Centre DB25 Connector for 32 channel unit

0 0 . 0 0		``	(0 .)
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 (+)

OPTO-ISOLATED I/P (0-7)

SRL-69-16 Front

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 (+) 22 9 NC 23 10 NC 24 11 NC 25 12 NC COM (-) NC NC NC

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

REED RELAY O /P (8-15)					
RELAY 8 (2)	14	1	RELAY 8 (1)		
RELAY 9 (2)	15	2	RELAY 9 (1)		
RELAY 10 (2)	16	3	RELAY 10 (1)		
RELAY 11 (2)	17	4	RELAY 11 (1)		
RELAY 12 (2)	18	5	RELAY 12 (1)		
RELAY 13 (2)	19	6	RELAY 13 (1)		
RELAY 14 (2)	20	7	RELAY 14 (1)		
RELAY 15 (2)	21	8	RELAY 15 (1)		
NC	22	9	NC		
NC	23	10	NC		
NC	24	11	NC		
			1		

25 12 NC 13 RELAY 8 (1)

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 (-) I/P CHAN 15 (-) I/P CHAN 14 (+ * COM (-) 22 9 NC NC 23 10 NC NC 24 11 NC NC 25 12 NC

OPTO-ISOLATED I/P (8-15)