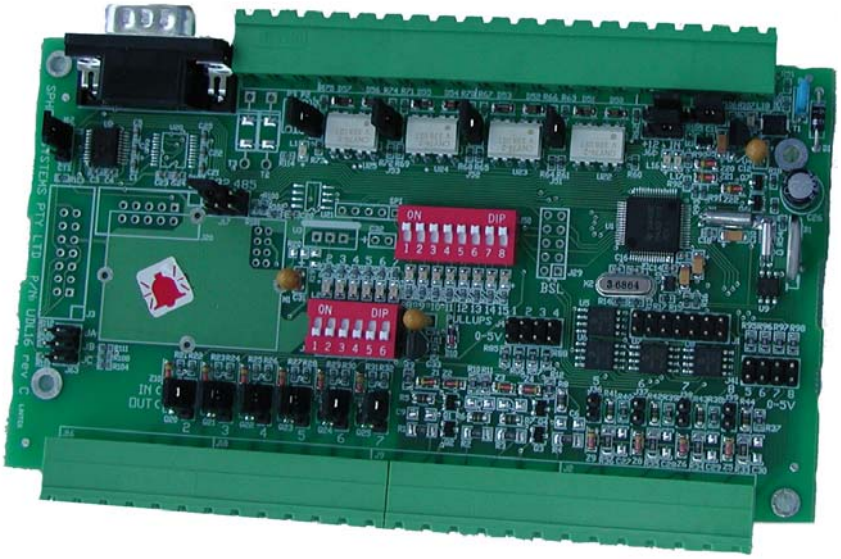
Wudl/Wudl-PT

Wide Universal Data Logger



Remote Data Logging, Alarm & Control

8/7 analogue inputs

0/8 PT1000 temperature inputs

16/8 digital Inputs

Up to 7/3 outputs

Supports Web Reporting of Data*

SMS Alarm and Status

Remote Configuration#

Remote Access to Data#

Compatible with ETM 3G (Telstra NextG™ approved) Modems

** Requires external services, by others*
 # Requires CSD capable SIM

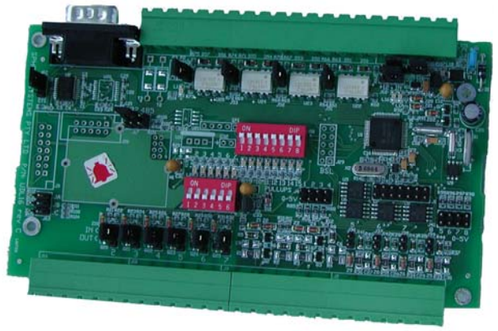
Data Logging, Alarm & Control

Wherever, Whenever You Need It

The WUDL/WUDL-PT data logger effectively combines the capabilities of a traditional data logger, basic PLC, SMS Alarm Sender and time clock in a single unit, which makes it ideal for a multitude of data logging, alarm and control applications.

Logged information can be downloaded directly to a PC via the RS232 serial interface or alternatively via an ETM GSM/GPRS (2G) or WCDMA/UMTS (3G) modem using a CSD connection. Data can also be automatically sent via an ETM modem to a nominated server for processing and saving to enable web delivery of data and alarms over the internet.

The unit incorporates SMS alarm capabilities, logic functions, and a calendar along with its analogue and pulse/counter data logging capabilities.

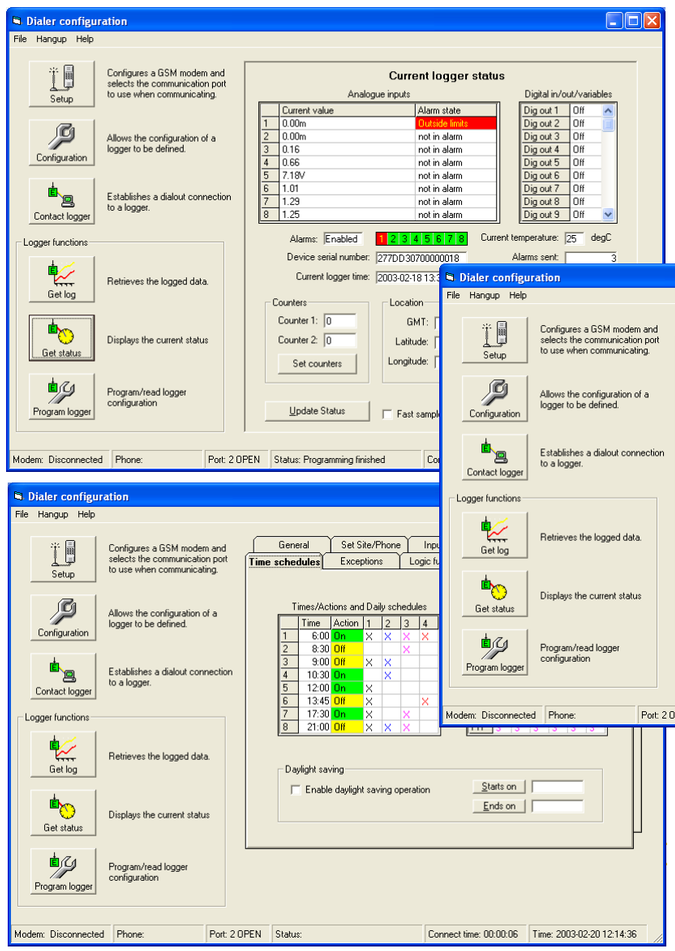


Configure the unit download data and receive alarms on your PC either by direct connection or via a GSM/GPRS or WCDMA/UMTS modem using CSD connection

Receive status and alarm signals or control the unit via SMS to/from your mobile phone

Control pumps, valves, warning lights, sirens or signs with the units digital outputs…or…use the digital inputs to count events/pulses

Configuration Software



Applications

- Remote water metering with WEB based reporting *(requires external services, by others)*
- Rainfall Monitoring and Alarm
- Environmental Data Logging including water level, temperature, humidity, pressure and more
- Energy use data logging

Specifications

		Wudl	Wudl-PT
Analogue Inputs (AI)			
	No. of Analogue Inputs	8 4-20mA / 0-2.5V / 0-5V	7 4-20mA / 0-2.5V / 0-5V
	No. of PT1000 temperature I	N/A	8 -50°C to 150°C
	Input Trip Level Discriminator	i) Normal Switch ii) Inverted Switch iii) Normal Window iv) Inverted Window All include a hysteresis setting to prevent excessive switching at threshold levels	
	Programmable Delay	Yes, 0 to 255 seconds	
	Programmable Sampling Rate	Yes, 1/second to 1/18 hours	
	Input Averaging	Yes, average over logging period or instantaneous value when log is taken	
	Accuracy[1]	4-20mA ±0.25% 0-2.5V ±0.25% (input resistance >100kΩ) 0-5V ±5%[2] (Input resistance 20kΩ) Temperature ±0.5K (Resolution 0.05K)	
Digital Inputs (DI)			
	Quantity/Type	16 Optically Isolated (6 of which can be configured as Outputs)	8 Optically Isolated
	LED Status Indication	Yes	
	Onboard Switchable Pull-up Resistor to accept switch closure to ground	Yes, selecting onboard pull-up resistors negates the optical isolation	
	32 Bit Counter for Each Input	Yes, counter counts the positive transitions on an input	
	Logging of Counters	Yes, can be reset at logging interval or via DI, DV, AI or time clock	
	Scaling of counters	Yes	
	Alarms derived from Counters	Yes	
Digital Outputs (DO)			
	No. of Open Collector MOSFET Outputs	1, Maximum 100mA @ 25VDC	3, Maximum 100mA @ 25VDC
	Shared I/O	6 additional shared with DI	N/A
	Setting/driving of outputs	Via any DI, DV, AI or time clock	
Digital Variables DV)			
	No. of Digital Variables	48	
	Digital Variable Features	All DV accept outputs from any internal function and can be used as inputs to any function 2 logical OR functions for combining of variables	
Edge detector			
	No. of Edge Detectors	1, detects rising edge of either a DI, DV AI or time clock	
Alarms			
	No. of Individual Programmable Alarms	16, reported via SMS (suitable GSM or UMTS modem required)	
	No. Destination Phone Numbers	8	
	Scheduling	Yes	
	Escalation	Yes	
	Time delay	Yes, programmable	
	Alarm Generation	From any DI, DV, AI or time clock	
	Daily alarm limit	Yes	
Logic functions			
	No. of Logic Functions	8, derived from any DI, DV, AI or time clock, with 4 inputs and 4 AND/OR arrays. Logic output can be inverted	
Delay functions			
	No. of Delay Functions	4, each with 3 types of output: delayed turn on, fixed width output or input stretching Delay function can be programmed to operate from either the rising or falling edge of the input	
	Delay Times	1 to 255 seconds	
Time clocks			
	Time clock functionality	8 separate time/action events per day 4 daily schedules 6 weekly schedules 8 public holidays schedules	
Counter functions			
	No. of Counters	2, 16 bit counters which can be derived or cleared from any DI, DV, AI, or time clock Counters can be used to generate alarms	
Logging			
	Memory Size	256kbytes	
	Items which can be logged	AI, DI, Digital Counters, Alarms, Reprogramming events	
	Maximum Logging rate	1 per second check	
	Variable Logging Rate	Yes, controlled via any DI,DV, AI or time clock	
	Output	Each recorded log can be sent to Serial Port as a .csv style frame each time a log is stored	
Communication			
	Serial Port	DB9 Male RS232 9600 Baud Rate	
	Remote Access	SMS, GPRS/UMTS with suitable modem	
SMS command capability			
	Items/parameters Which Can be Remotely Interrogated	AI AI Limits DI & DO Status Phone Numbers in List Change Phone Numbers	
	Can set/change	Phone Numbers AI Limits Enable/disable Alarms Switch DO Acknowledge Alarms and Cancel Escalation	
Sensor power control			
	MOSFET Switched Power Supply to Sensors	1 Switched Supply 30mA maximum	
	Programmable Sensor Warm Up Time	Yes, 30ms to 1000 seconds	
Physical Characteristics			
	Dimensions	151mm x 82.5mm x 12mm	
	Weight	50g	
	Power Input	3.6V to 16VDC 50uA without pull-up resistors. Power Consumption may vary depending on configuration	12V to 16VDC 50uA without pull-up resistors. Power Consumption may vary depending on configuration
	Environmental	-20oC to +50oC, 5 to 95% humidity non-condensing	
	I/O Mating Terminal Block Type(s)	5mm Pitch Plug (Phoenix Contact or Equivalent)	

Notes:
1. Stated accuracy is over full range
2. For 0-5V range accuracy is after calibration (by others). 0-5V range not calibrated unless specifically requested.

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