



# OdaLog®

## ULTx Remote Telemetry Logger

*Bringing you closer to your data*

### Simplify your remote location data logging with the ULTx Remote Telemetry Logger!

Specifically designed for easy deployment, the ULTx does not require an enclosure or complicated mounting - just suspend the logger inside a well and let the ULTx do all the work.

#### Key Features

- **Extra Long Battery Life:** greater than 12 months in most deployment scenarios
- **Solar Compatible Model Available:** now available in a fully self-contained solar-compatible logger with rechargeable batteries, direct connect to your solar panel
- **SMS Alerts for Sensors:** receive an SMS alert immediately when one of your Modbus or 4-20mA sensor measurements reaches your selected alarm level
- **Simple Depth Reference:** for depth measurement sensors\*\*  
Setting the reference level is now easier than ever, just set directly from your ULTx logger or remotely via the Merlin software
- **Easy Access to Data:** access logged data remotely via FTP server (Internet Protocol)
- **In-built Modem:** transmits via 2G/3G to data server
- **Stainless Shackle Attachment:** Provides secure attachment to bore-hole covers/posts
- **Single Button Operation:** Magnetic switches used for option selection
- **LCD Display:** displays readings, status, settings and calibration screens
- **Cylindrical Shape:** for easy in-pipe installation (logger can be suspended inside a well)

\* Appropriate sensors required

\*\*Limited support for selected sensors. Please contact your distributor for more information on supported sensors.

#### Typical Applications\*

- Hydrological
- Industrial Site
- Water Quality
- Boreholes
- Oceanographic
- Water Treatment Plant Monitoring



## Specifications

<b>Instrument Temp Range</b>	-20°C (-4°F) to 50°C (122°F)
<b>Instrument Relative Humidity Range (RH)</b>	0 - 100%
<b>Ingress Protection</b>	IP66
<b>External Dimensions</b>	Diameter 76mm (3") x Height 316mm (12.4") [without antenna]
<b>Instrument Weight</b>	1kg / 35.3oz [with default battery type fitted]
<b>Power Supply</b>	Standard: Replaceable D-Size 3.6V Lithium Batteries x 2 (Type: LiSOCl <sub>2</sub> 'high-power'). Solar Model: D-Size 3.3V rechargeable LiFePO <sub>4</sub> Batteries x 2
<b>Battery Life/Run Time</b>	12 - 24 months in most deployment scenarios (default settings: 30min logging, 24hr transmit, 5-sec sensor on). Battery life will be impacted noticeably when using settings more frequent than 5min logging / 12hr transmit / 10sec sensor-on.
<b>Data Logging Capacity</b>	168,000 readings, 512Kb total stored in logger memory (No size limitations on logs hosted on FTP server).
<b>Data Log File Format / Logging Type</b>	Data Logs automatically converted to CSV format on a hosted FTP server, (server account provided, free access). Customer-hosted data server options available*.
<b>Logging Interval</b>	Selectable from 2 seconds to 60 minutes (limited by 'sensor-on' stabilisation time requirements of sensor).
<b>Transmission Level</b>	Selectable from 30 minutes to 24 hours
<b>SMS Alarms/Alerts</b>	High / Low independent SMS alerts for both Analog and Modbus channels (single parameter). 2 recipient phone numbers supported.
<b>Communication Module</b>	Internal 3G capable modem: 3G: Dual-Band UMTS/HSDPA / Penta-band HSPA+ 2G: Quad-Band GSM/GPRS/EDGE 850/900/1800/1900 MHz Frequency bands supported dependent on model/country: AU/EU Model 3G Frequency Bands: HSDPA / UMTS 850: 2100 MHz U.S. Model 3G Frequency Bands: HSPA+ 850/900/1900UMTS: 850/2100 MHz
<b>Data Logging Duration Sample (internal memory only)</b>	Internal memory can retain 168,000 readings before starting to overwrite the oldest data. Transmission must occur prior to overwriting internal memory for all data on FTP server to be continuous. Each parameter/logged value is 1 reading (including time/date and factory logged data). Example below of 'roll data' periods: * 1ch analogue 4-20mA only; logging interval of 5mins = ~5 months * 3ch modbus, 5min logging interval = ~8 days * 9ch modbus, 5min logging interval = ~42 hours
<b>Tri-Band Antenna</b>	Pluggable Water-proof (IP68) 850-900/1800/1900MHz GSM/CDMA External Dimensions: 100mm High
<b>Logging Accuracy</b>	Analogue Channel (4-20mA): <0.2% (calibrated). Utilises 16-bit ADC.
<b>Logging Input</b>	1 Ch 4-20mA input, 2 or 3 wire configuration supported. Logger-power available (12VDC), adjustable power-on time. Modbus/RS485 input**, Logger-power available (12VDC) adjustable power-on time.
<b>Max Range</b>	Analogue Channel (4-20mA) instrument will display -UF- or -OF- if outside range: 3.8-20.8mA
<b>Output Current</b>	75mA (12VDC), Sensor Power available from ULTx

\* May be up to 15 minute delay between data upload from logger, and conversion to CSV file.

\*\* Limited support for selected sensors. Please contact your distributor for more information on supported sensors.

### SENSORS

We supply a range of environmental and industrial sensors to monitor water, gas, air and soil to suit your specific requirements.

### WARRANTY

12 month warranty when used in accordance with the operator's manual (excluding calibration and freight costs).

### SOFTWARE

Configuration software (Merlin) and Infrared communication adapter provided, compatible with Windows XP/ Vista/7/8, required for setup and remote instrument setting changes. FTP server and CSV files can be accessed/ viewed by any compatible software/device.