

SMART TELEMETRY

Environmental data from anywhere to anyone

KEY BENEFITS

- Smart telemetry with reliability built-in
- Fail-safe and dependable
- Multi-sensor data on any device
- Delivers real-time information



Our range of **Smart Telemetry** units offer powerful and cost-effective solutions for the collection and transmission of metocean (or environmental) data: from anywhere to anyone!

Manufactured by leading telecommunications technology provider Scannex, and specially adapted for **OceanWise**, these units are designed to meet requirements in the most demanding of marine environments.

Why choose OceanWise smart telemetry?

- ✓ Proven reliability
- ✓ Low power consumption
- ✓ Programmable data acquisition
- ✓ Choice of data delivery options
- ✓ Works with a wide range of sensors
- ✓ Bidirectional communication
- ✓ Remote device administration
- ✓ Safe and secure data transmission
- ✓ Industry specific scripts

Built-in reliability!

Installed in many different environments all over the world, the ip.buffer has surpassed storage, recovery and transmission expectations time and time again.

It works with a wide range of sensors and can be programmed according to your requirements. Talk to us today about how the ip.buffer can help you get the most out of your metocean data.



Standard Enclosure



N4X Enclosure

“ We are extremely happy with the performance of the ip.buffer. We are not aware of any other modem being able to perform to this standard. ”

Dr Mike Osborne

Reliable, secure, flexible and cost effective

FEATURE MATRIX

	ip.1-32	ip.4-128	ip.4-128.g.N4X	rt.buffer.N4X
DATA COLLECTION AND STORAGE				
Serial data collection ports	1	4	4	2
TCP/IP, Telnet, FTP, UDP, SNMP Traps, Syslog, RADIUS	✓	✓	✓	n/a
Multi-homing	✓	✓	✓	n/a
Record time-stamping	✓	✓	✓	✓
Flash memory size (10 year retention)	32mb	128mb	128mb	128mb
Memory storage channels	1	4	4	Files
Dynamic memory allocation between channels	–	✓	✓	✓
DATA DELIVERY OPTIONS				
Real-time TCP/IP (client and server)	✓	✓	✓	n/a
FTP server, FTP push, SFTP/SSH push	✓	✓	✓	FTP push
Email (triggered)	✓	✓	✓	n/a
HTTP post to standard web server	✓	✓	✓	✓
Internal scheduler for FTP/HTTP/email (per channel)	✓	✓	✓	✓
SSL encrypted connections for all delivery methods	✓	✓	✓	✓
z-lib data compression on delivery (FTP, HTTP, email)	✓	✓	✓	✓
Modem delivery across internet (all delivery methods)	Modem optional	Modem optional	✓	✓
SCRIPTING ENGINE				
Scripted alarm and fault detection	✓	✓	✓	✓
Filtering and modification of data	✓	✓	✓	✓
Scripted device protocols	✓	✓	✓	✓
MANAGEMENT AND SECURITY				
Web server (http:// and https://) for configuration	✓	✓	✓	USB
RADIUS authentication	✓	✓	✓	n/a
Pass-through for administration of devices	✓	✓	✓	✓
SNMP agent	✓	✓	✓	n/a
Syslog output and audit log	✓	✓	✓	Logs
Remote fail-safe firmware upgrades	✓	✓	✓	✓
Real-time-clock (battery backed) with SNTP and DST	✓	✓	✓	✓
Centrally managed using HTTP web server	✓	✓	✓	✓
ALERTS				
Source connect/disconnect (COM and TCP) and data quiet	✓	✓	✓	✓
Percentage full alarms	✓	✓	✓	✓
Comfort, reboot, config and authentication	✓	✓	✓	✓
Temperature (upper and lower limits)	–	✓	✓	✓
SNMP traps (compatible with HP OpenView)	✓	✓	✓	✓
INSTALLATION FEATURES				
Auto pin, Baud and protocol setup on serial ports	✓	✓	BAUD and protocol	n/a
Auto cross-over, full/half duplex on 10/100 ethernet	✓	✓	✓	n/a
Network configuration tool	✓	✓	✓	✓
OPTIONS				
Quad-band modem 3G/4G modem options	ip.1-32.g	ip.4-128.g	ip.4-128.g.N4X	rt.buffer.N4X
GENERAL				
Casing	Plastic	Metal	Metal N4X	Metal IP66
Mounting options	DIN-rail and tie-wrap	Rack mount	Wall mount	Wall mount
Cables and adaptors	Included	Included	Dependant on requirements	Dependant on requirements
Sensor power switching capabilities	n/a	n/a	✓	✓

See case studies showing the ip.buffer in action on our website at:
www.oceanwise.eu/oceanography/data-telemetry/



Enjoy the confidence of working with marine data experts
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www.oceanwise.eu