

IP.BUFFER, SMART TELEMETRY

Metocean 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 by **OceanWise**, these units are designed to meet requirements in the most demanding of marine environments.

Why choose i.p.buffer?

- ✓ 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

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
DATA COLLECTION AND STORAGE			
Serial data collection ports	1	4	4
TCP/IP, Telnet, FTP, UDP, SNMP Traps, Syslog, RADIUS	✓	✓	✓
Multi-homing	✓	✓	✓
Record time-stamping	✓	✓	✓
Flash memory size (10 year retention)	32mb	128mb	128mb
Memory storage channels	1	4	4
Dynamic memory allocation between channels	-	✓	✓
DATA DELIVERY OPTIONS			
Real-time TCP/IP (client and server)	✓	✓	✓
FTP server, FTP push, SFTP/SSH push	✓	✓	✓
Email (triggered)	✓	✓	✓
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	✓	✓	✓
RADIUS authentication	✓	✓	✓
Pass-through for administration of devices	✓	✓	✓
SNMP agent	✓	✓	✓
Syslog output and audit log	✓	✓	✓
Remote fail-safe firmware upgrades	✓	✓	✓
CHAP/PPP modem dial-in	Modem optional	Modem optional	CSD (if available)
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
Auto cross-over, full/half duplex on 10/100 ethernet	✓	✓	✓
Network configuration tool	✓	✓	✓
OPTIONS			
Internal 33.6k global modem	ip.1-32.m	ip.4-128.m	n/a
GPRS quad-band modem	ip.1-32.g	ip.4-128.g	ip.4-128.g.N4X
Isolated -48 VDC supply	n/a	ip.4-128-48	n/a
GENERAL			
2-hour battery back-up (batteries not supplied)	✓	✓	n/a
Casing	Plastic	Metal	Metal N4X
Mounting options	DIN-rail and tie-wrap	Rack mount	Wall mount
Kit includes all cables, adaptors and PSU	✓	✓	✓

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
 For information contact info@oceanwise.eu or phone +44 (0)1420 768 262

www.oceanwise.eu