

ShipsLog™ datalogger for vapour shippers - Accurate, downloadable temperature history of samples in transit.

- Record of sample temperature
- Soft or hard copy
- Set alarm trip points
- Visual LED warning
- User programmable
- Download data



The Planer ShipsLog™ is a datalogger for vapour shippers which will keep an accurate and downloadable temperature history of samples over the duration of the transit.

The ShipsLog™ is an on-line monitoring system of temperature history for samples in liquid Nitrogen Vapour Shippers. It provides traceability for the temperature of the samples and can give alarms at setpoints during the transit period.

The ShipsLog™ monitor is fitted in the top of the dry shipper's cover. The temperature probe (PT100) extrudes through the 'cork', monitoring the temperature at the warmest part of the vapour shipper.



The temperature sensor is fitted to a plate which prevents physical damage to the sensor and also ensures that the temperature recorded is higher than the temperature in the vicinity of the sample.

The ShipsLog™ can also be supplied with a flying lead should it be required to record the temperature within the sample area - this unit is not fitted with, or supplied with a cork and cover.

Samples may be transported in the knowledge that on arrival at destination the recipient can quickly check via the LED display whether the temperature range has deviated from the pre set profile.

The full temperature history can be downloaded if desired to confirm the exact temperature pattern throughout the journey. The logger is user programmable via PC software.

The logging process can be started either via the PC software or via a magnetic swipe key - which can be shipped separately from the vapour shipper. Analysis of the data can be made by the sender, the receiver or both.

Key Features

- Record of sample temperature
- Soft or hard copy
- Alarms trip points can be set
- Visual LED warning
- User programmable

Software

- User programmable
- Archiving facility for logged data
- Hard disk or external drive
- Print in graphical or tabular form
- Specific segments can be printed

Temperature check

- Log intervals can be set for each shipment
- Temperature Alarms settable by user
- Logging intervals can be set from 30 seconds to 99 minutes
- Store up to 8,192 entry logs

Alarms

- High and low temperature alarms
- Alarm delays programmable
- Temporary removal of cork and cover need not initiate alarm status

Precision accuracy

- Probe accuracy of +/- 1.3°C at -200°C
- Battery life of approximately 3 years
- View current temperature via software
- Software settings password protected

ShipsLog™ datalogger for vapour shippers - Specification

Measurement

Range	-200°C to 0°C
PC Programme	Display units user selectable -°C, °F or K
Probe Type	Platinum Resistance, Pt 100, Class B
Accuracy	±1.5°C at 0°C, rising to ±2.5°C at -200°C, including uncertainty due to measurement resolution and probe errors
Calibration	Traceable to NAMAS standards; semi-automatic user calibration possible using optical PC calibration pack; calibration certificate printed automatically

Data Logging

Number of points	8192
Logging Interval	30 seconds to 99 minutes in 30 second increments
Logging Resolution	0.1°C
Max Number of Logs	8192 (Limited to number of points)

Alarm Generation

High Alarm Level	-200°C to 0°C in 1.0°C steps
Low Alarm Level	-200°C to 0°C in 1.0°C steps
Alarm Delay Period	0 to 120 logging intervals

Control & Indication

Manual Control	Magnetic non contact Start / Stop Switch using supplied fob
Communication	RS232 Serial communications to proprietary PC program
Programming	Using propriety PC program
Indicators	Three x LED Indicators: Yellow=Normal, Orange=Warning,

Battery

Type	Lithium Thionyl Chloride, internally fitted, factory replaceable
Life	Approximately 3 years in normal operation; battery life remaining is indicated via PC programme

PC Software Requirements	PC to be Windows '95, '98 or NT
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Ordering Information

Description	Ordering Ref
ShipsLog with temperature probe	GDSHIPSLOG-FL
ShipsLog with fixed probe 720mm long	GDSHIPSLOG-FL-720
ShipsLog for Cryoshipper vapour shipper	GDSHIPSLOG-CS
ShipsLog for SC4/3V vapour shipper	GDSHIPSLOG-SC4/3V
ShipsLog for SC4/2V vapour shipper	GDSHIPSLOG-SC4/2V
Temperature Probe for ShipsLog	GDSHIPSLOG-PRT-610MM
Serial Cable to connect ShipsLog to PC	AC013808

Please refer to your vessel documentation for details. Note that use of the ShipsLog for the SC4/3V could result in an increase in liquid nitrogen evaporation rate of 22% and this may affect the hold-up time of the system.

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