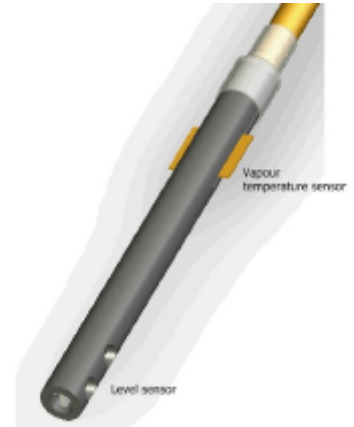


Assure24seven web-based monitoring

Assure sensors - for all measurements

- Precision Sensors
- Innovative Designs
- Temperature
- Humidity
- Liquid and Gas Level
- Lids and doors
- pH level



Assure24seven

The Assure24seven suite of products, from Planer, offers users a versatile mix of features and optional capabilities to suit all customer requirements and budgets.

Products are 'web-based' which means that information can be accessed from anywhere in the world, by means of 'web-browsers', so no software is required at the point of access.

A very wide range of input parameters such as temperature, level, humidity etc. can be monitored around the clock. Deviations can instigate public alarms or can be set to send notifications to named individuals by email or mobile phone. Over 1,000 measurement points can be accommodated and the system can start small and be added to, by the user, at any time, without the need of specialists.

A wide variety of standard reports is available, incorporating both tabular and graphical data, and custom reports are easily created, again, by the user, without need of specialist help.

Data is locked forever in a secure tamper-proof store and 'digitally-signed documents' and secure, password protected, log-ins ensure that systems meet the requirements of CFR 21 Part 11 security regulations.

Assure sensors

As designers and manufacturers of precision medical temperature control equipment for over thirty years, Planer have developed in-house skills which are world class.

Cryogenic design, thermodynamic modelling, mechanical and electronic engineering expertise combines to produce some of the most precise and innovative sensor products available.

Assure sensors are used to measure a very wide range of physical conditions such as temperature, liquid and gas levels, pressure and humidity etc. Together with Kryo-Base modules, such Assure sensors provide the essential input signals to Assure24seven data-logging and monitoring systems.

High precision and reliability of operation are key to providing round the clock monitoring and accurate performance measurement demanded by modern establishments.

Information provided here describes some of the current sensors in the Assure range, which is growing all the time. Please enquire if you do not see what you are looking for.

Assure sensor range

- A24S-TP10
Temperature Probe
- A24S-TLP
Temperature and Level Probe
- A24S-EE10
Basic level Humidity Monitor
- A24S-EE29
Advanced Level Humidity Monitor
- A24S-O2
Oxygen level monitor
- A24S-CO2ADV
CO2 level monitor
- A24S-RT
Room Temperature monitor
- A24S-RTLCD
Room Temp monitor with LCD
- A24S-DS
Door switch mechanism
- A24S-PH
pH Acidity monitor
- A24S-SCALE
Gas cylinder weight monitor

Assure24seven web-based monitoring

Assure sensors - sensors for all measurements

Assure sensor range:

| Sensor | Description |
|--------------|---|
| • A24S-TP10 | Temperature Probe - Model TP10 type Pt100 Temperature Probe to IEC 751 Class A and with 3m connecting cable suitable for cryogenic applications. Probe is fitted with 3-pin connecting plug and suitable wall mounting socketed patress box enabling wiring into Kryo-Base unit. Each temperature probe requires the capacity of one channel in a Kryo.base.PRT7 module. |
| • A24S-TLP | Temperature and Level Probe - Model TLP type Pt100 Temperature and Level Probe to IEC 751 Class A and with up to 10m connecting cable suitable for cryogenic applications. Probe performs level measurement function simultaneously. Each temperature/level probe requires the capacity of one channel in a Kryo.base.PRT7 module. |
| • A24S-EE10 | Basic level Humidity Monitor - The humidity level is constantly monitored and this unit provides an analogue of Relative Humidity (RH) and Temperature with outputs of 4-20mA. Monitor requires one analogue input connection to a Kryo.base.analogue module. Accuracy at 20 degC and UV=24VDC ± 2 %R.H. (40...60%R.H.) ± 3 %R.H. (10...90 %R.H.) Temperature influence at 60%R.H. typical 0.06 %R.H. / degC |
| • A24S-EE29 | Advanced level Humidity Monitor - The humidity level is constantly monitored and this unit provides an analogue of Relative Humidity (RH) and Temperature. Monitor requires one analogue input connection to a Kryo.base.analogue module. Accuracy including hysteresis and non-linearity ± 2 % RH (0...90% RH) ± 3 % RH (90...100% RH) |
| • A24S-O2 | Oxygen level monitor - The oxygen level within the storage environment is constantly monitored and provides an analogue of oxygen level as well as alarm outputs by voltage-free-contact (VFC). Monitor requires one analogue input connection to a Kryo.base.analogue module. |
| • A24S-CO2 | CO2 level monitor - The CO2 level in, for instance, an incubator environment is constantly monitored and provides an analogue of CO2 level. Alarm outputs are generated within Kryo-admin. Monitor requires one analogue input connection to a Kryo.base.analogue module. |
| • A24S-RT | Room Temperature monitor - Model TM101 Ambient Temperature Monitor - by means of a wall mounted Pt100 temperature probe in a mesh enclosure - to IEC 751 Class A and with 10m connecting cable. Price includes fitting, commissioning and validation. Monitor requires capacity of one channel in Kryo.base.PRT7 module. |
| • A24S-RTLCD | Room Temperature monitor with LCD Display - Pt100 enclosed within a white case, with a modern stylish design. Also includes a good, legible LCD screen which displays the temperature. Monitor requires capacity of one channel in Kryo.base.PRT7 module. |
| • A24S-DS | Door switch mechanism - Two-part magnetic switch assembly for connection to room doors, freezer doors, freezer lids etc. in order to monitor open or closed status. Switch Assembly requires one digital input connection to a Kryo.base.status module. |
| • A24S-PH | pH Acidity monitor - Will measure the pH level within an incubator. Monitor requires one analogue input connection to a Kryo.base.analogue module. |
| • A24S-SCALE | Cylinder weight monitor - Will measure the weight of a cylinder to determine the gas or liquid usage. Monitor requires one analogue input connection to a Kryo.base.analogue module. |

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