

Visio-4

Touchscreen
For Controlled Environments

Isolation Rooms

Clean Rooms

Operating Theatres

Laboratories

Production Suites

Data Centres

Storage Facilities



OVERVIEW

The Visio-4 is an intuitive touchscreen that has been developed as a solution in response to market requirements for the capture, measurement and display of critical environmental parameters.

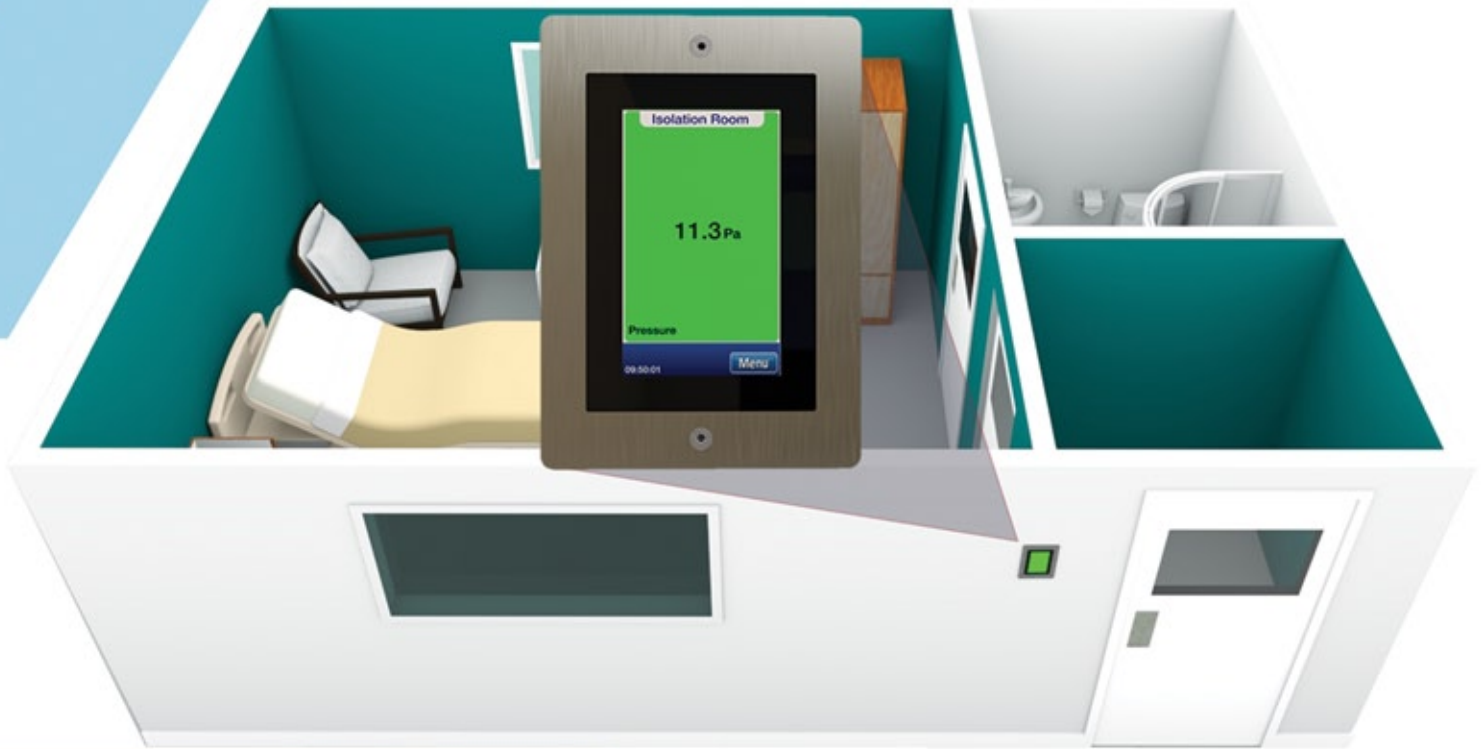
Visio-4 provides a very flexible solution for a wide range of applications and market sectors. The intuitive menus allow the user to configure up to 4 sensors to provide visual and audible alarms in the event that the sensors deviate from their setpoint.

FUNCTIONS & FEATURES

- ▶ Traffic light colours to indicate system status
- ▶ Intuitive interface using icons and simple menus
- ▶ Adjustable warning and alarm setpoints
- ▶ 2 no levels of security access – Operator & Engineering
- ▶ Flush-mounting 316L brushed stainless steel bezel
- ▶ Audible alarm and flashing alarm screens
- ▶ Fully configurable warning and alarm time delays
- ▶ Wide range of applications and market sectors
- ▶ Sensors can be calibrated using 'offset' feature
- ▶ 4 no alarm contacts for remote monitoring

The image displays four screenshots of the Visio-4 touchscreen interface:

- Bedroom Monitoring:** Shows a green header for 'Bedroom' with a pressure reading of 14.4 Pa. Below it, an orange header for 'Anteroom' shows a pressure reading of 10.2 Pa. A 'Menu' button is at the bottom right, and the time 10:37:21 is at the bottom left.
- Channel 1 Setup:** A configuration screen for 'Cleanroom 1' showing 'Pressure' as the sensor type, '0-10Vdc' as the signal type, and 'Pa' as the engineering units. It includes fields for sensor range (High/Low) and sensor offset, with 'Exit' and 'Menu' buttons.
- Cleanroom 1 Monitoring:** Shows a green header for 'Cleanroom 1' with a pressure reading of 14.4 Pa, an orange header for 'Cleanroom 1' with a temperature reading of 20.4 °C, and a green header for 'Cleanroom 1' with a relative humidity reading of 10.2 %rh. A red header for 'Airlock' shows a pressure reading of 10.2 Pa with a 'CAUTION !' warning. It includes 'Menu' and 'Exit' buttons.
- Engineering Menu:** A dark blue menu with four icons: 'OPERATOR PASSWORD SETUP', 'DISPLAY TIME ADJUST', 'ALARM & SENSOR SETTINGS', and 'RESET FACTORY DEFAULTS'. It includes 'Menu' and 'Exit' buttons.



ISOLATION ROOMS

Isolation rooms are used in hospital and healthcare facilities as a means of controlling the spread of contagious diseases (e.g., smallpox, ebola virus) from a patient to other patients, health care workers and visitors. They are also used as a protective measure for patients with a low immune system.

How does an Isolation Room prevent cross-contamination or spread of a disease?

Many contagious diseases are transmitted by airborne pathogens which is why isolation rooms are designed with specific air pressure profiles. The anteroom/lobby is normally kept at a higher pressure than the adjoining corridor and the isolation bedroom itself. This ensures that the flow of air is towards the bedroom and corridor when the doors are opened. The Visio-4 provides a solution that gives health care workers a visual and audible status of the room pressures thus maintaining a high level of infection control.



NORMAL SCREEN

This screen indicates that the isolation suite room pressure is within the design parameters.



WARNING SCREEN

This screen indicates that the room pressure has deviated from the design parameters.



ALARM SCREEN

The alarm screen is activated when the room pressure has reached the low alarm setpoint.

SPECIFICATIONS



GENERAL

Alarm Screens:	Uses traffic light colouring (Green-Amber-Red)
Analog Inputs:	4 No inputs (4-20mA & 0-10Volt selectable using dip switches and software)
Alarm Contacts:	4 No Volt-free contacts (N/O & N/C 24vdc)
Audible Alarm:	Buzzer sound for each channel with adjustable mute facility
Password Access:	2 levels of access (Operator & Engineering)
Display Options:	Choose between 1, 2,3 & 4 channel homepages
Room Description:	Over 40 pre-programmed room names but can be customised on request
Sensors	12 No selectable type of sensors but can be customised on request
Mounting Options:	Flush fitting for wall or control panel.

TECHNOLOGY

Display Type:	4.3" TFT with 262k colours
Display:	Capacitive Touchscreen
Resolution:	480 X 272 pixels
Processor:	32 bit Arm 9 454Mhz
Memory:	1Gbit DDR2 sdram
Operating Temp:	0-40 DegC

ELECTRICAL

Power Supply:	24 Volt DC +/- 20% (0v to earth)
Electrical Connections:	CSA of 1.5mm or 15 AWG
Cable Glanding:	Backbox has 4 No 20mm holes
Fuse Rating:	2 Amp quick-blow type
Alarm Contacts:	1 Amp @ 24 Volts DC
Analog Inputs:	4-20mA or 0-10 Volt DC

COMPLIANCE

Radiated Emissions:	EN55011
Radiated Immunity:	61326-1
	EN61000-4-2:2009
	EN61000-4-3:2006
	EN61000-4-4:2012
	EN61000-4-6:2014
	EN61000-4-8:2010

MECHANICAL

Termination Box Dimensions:	148 x 100 x 46 mm
Termination Box Material:	1.5 mm Galvanised Steel
Bezel Dimensions:	160 x 112 x 2 mm
Fixings:	4.0mm Countersunk S/S Hex
Bezel Material:	Brushed 316L stainless steel

Authorised Distributer



 Visio-4

CE

