



dust filter controls

Product Data Sheet

KX6200/6210

Differential Pressure Sensor



O V E R V I E W

■ *The KX6200 & KX6210 Differential Pressure Sensors form part of our latest range of advanced Microprocessor controlled peripherals. Aimed at Dust Extraction and Air Flow applications, the Sensor units have an intelligent control system and via a high resolution LCD display and push button controls, the user may easily set modes of operation in a way that is intuitive and less prone to error.*

The relay activated output stage allows external devices or systems to be triggered by these units, this function may be set to produce a latched and high alarm signal across the two individual relays, our KX7400 Master Controller may be set to use this input or many other similar systems including alarms that can be triggered by this means.

The KX6200 is designed to be used in conjunction with a remote pressure sensor such as our ZX41 unit whereas the KX6210 is equipped with an on-board transducer and air feed connectors enabling pressure readings to be taken internally or via an external source.

The units come equipped with on-board eeprom memory that saves user settings prior to disconnection or power failure ensuring seamless operation at all times. Attractively packaged & weather-proof to IP65 specifications, these sensors may be used with many systems and where ever versatile and accurate DP monitoring is required.



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Contents	
Features	2
Programmable Features	3
Technical Specifications	4

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Features

ADVANCED MICRO-PROCESSOR CONTROL.

- Operating at over a million instructions per second the onboard micro-processor provides ease of use and a level of control which was virtually impossible with old plc or Cmos systems.

FOUR PRESSURE SCALES

- The KX6200/6210 Differential Pressure Sensors allow reading across four different pressure scales 0-100, 0-250, 0-700 mm of water and 4-20 Milliamps, this allows matching of the units input to an external source. The KX6210 introduces the option to take differential pressure readings internally, when this mode is selected, only the 0-700 mm WG scale is used.

ONBOARD EPROM MEMORY

- Ensures system settings are retained during power failure or disconnection of the Sensor Unit.

EASY TO USE 3 BUTTON CONTROL

- **MODE:** Move forward through options
- **UP:** Increases values selected by mode
- **DOWN:** Decreases values selected by mode

HIGH RESOLUTION LCD DISPLAY

- Easily view and adjust system setup.
- Displays pressure readings in real time.
- Alarm warnings displayed on screen.

HIGH ALARM & LATCHED OUTPUT

- The relay activated output is set to produce a latched output. When high pressure setting is reached, this remains present until the low pressure setting is reached.
- High Alarm output is activated across the second relay when high alarm set point is reached and deactivated when a reading below the high point is reached.
- Using these two types of outfit from the unit, many types of external systems can be activated and run by the Sensor Unit.

COMPACT AND TAMPERPROOF DIN CASE

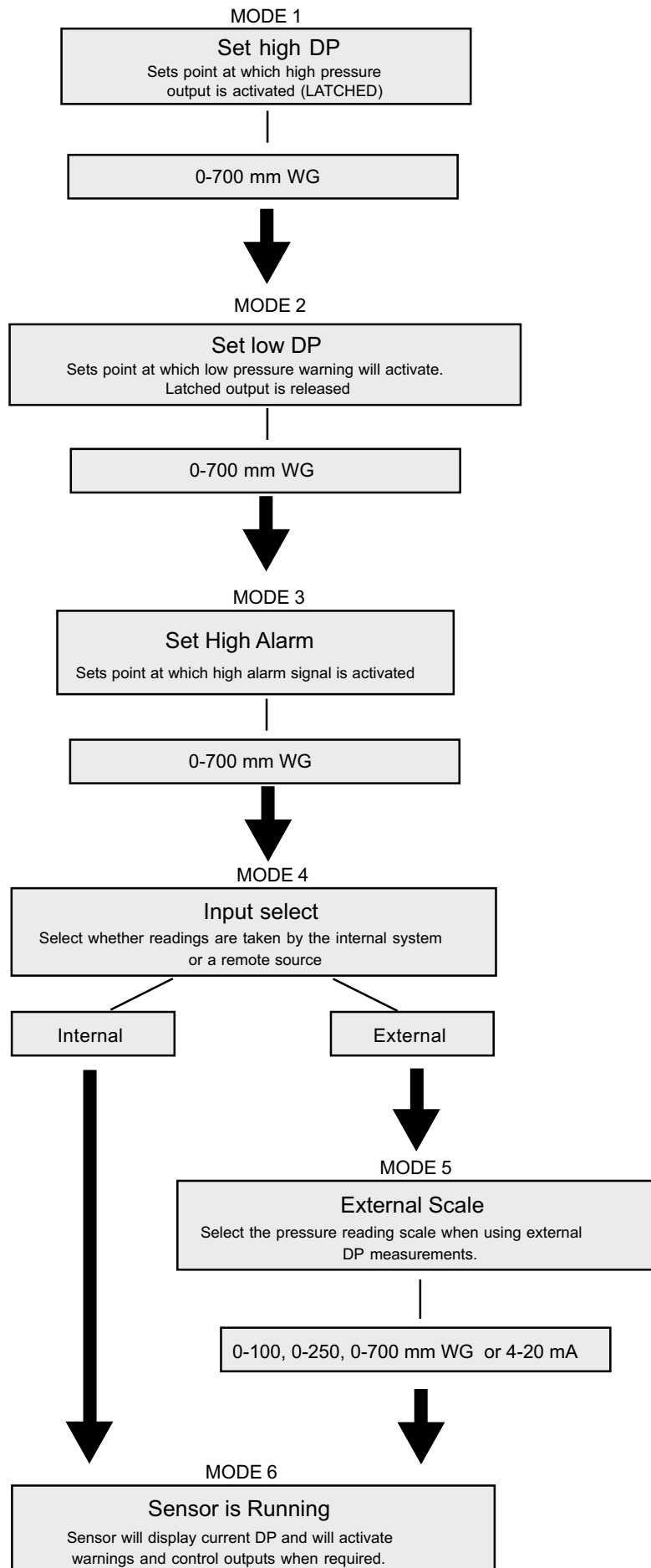
- The KX6200/6210 Differential Pressure Sensors are supplied with extremely resilient DIN cases, this ensures optimum weather and damage resistance. Their small size (96mm x 96mm x 110mm) allows installation virtually anywhere, especially where space is not at a premium.
- The Clear perspex front of the case is hinged to allow access to the units control buttons. To ensure there is no unauthorised access, the unit is lockable using the key provided.

EXTERNAL SENSORS

- Where external readings are needed we recommend the use of our ZX41 remote pressure sensors. These operate across the 0-100, 0-250 & 0-700 mmWG DP pressure ranges and are guaranteed to be 100% compatible with the KX range of sensors.
- The ZX41 has the additional benefit of being 2 wire loop powered directly from the KX sensor unit and unlike some available units, does not require a power supply of its own.

Programmable features

The following is a flow chart of the programmable settings available on the KX6200/6210 Differential Pressure Sensor. All options available in each mode are explained in an easy to follow format.



Technical Specifications

UNIT :	Part Number KX6200 or KX6210.
INPUT SUPPLY:	115 - 230 V +10% -15% @ 50/60HZ.
INPUT FUSE:	10 Ohm fusible resistor .
POWER SUPPLY:	5-Way 1.5mm 16 Amp top entry plug and socket insulated terminal block which is marked: POWER SUPPLY, 230, 115, NEUTRAL.
MAINS FAILURE:	In the event of mains failure, the unit will operate to specification as soon as the voltage level comes within the above limits.
START UP SEQUENCE:	The unit is arranged so that dP reading and output control will start immediately
DIFFERENTIAL PRESSURE CONTROL:	The microprocessor uses a single analog input for external readings.
PRESSURE SCALE:	0 - 100, 0 - 250, 0 - 700mmWG and 4-20 mA in EXTERNAL MODE. 0-700mmWG in INTERNAL MODE.
DP PRESSURE CONNECTIONS:	(KX6210 only). 2 x 5mm (outside diam) pneumatic compression connectors suitable to accept nylon hose.
CONSTRUCTION:	Solid state microprocessor components mounted onto a double sided glass fibre PC.B. with component legend.
INDICATION:	High resolution LCD.
AMBIENT TEMPERATURE AT BOARD SURFACE:	0 to +45 deg.C.
STORAGE TEMPERATURE:	-10 to +60 deg.C.