Model 6020 Dewpoint Hygrometer

Single Channel Advanced On-Line Dewpoint Hygrometer

Model 6020 is a single channel, panel mounted, online hygrometer designed to accurately measure trace moisture in process gases utilising a range of dedicated, ultra high capacitance, field mountable sensors.

The system incorporates an automatic calibration (AutoCal) facility and encompasses measurement needs from -110°C to +20°C dewpoint.

The sensor has been designed and conditioned for long term stability, and together with its high sensitivity, allows use of up to 1km cable length between sensor and instrument.

Additionally, the sensor is ATEX certified for intrinsic safety so can be used in hazardous environments with a suitable Zener barrier in the safe area.



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Offering full field interchangeability, each Model 6020 unit is factory calibrated with sensor to better than ±2°C accuracy and is supplied with a certificate of calibration traceable to International Humidity Standards.

There are three Hot Key front panel key functions to gain rapid access to set alarms trip points and choice of displayed engineering units. These functions can be locked to prevent unauthorised tampering.

Users may choose to view the trace moisture levels in °C dewpoint, °F dewpoint, ppm(v), ppm(w), g/m³ or lb/MMSCF on the 5 digit, seven segment LED display.

The factory calibrated, but fully configurable, analogue current output is automatically linearly correlated with all the selected engineering units.

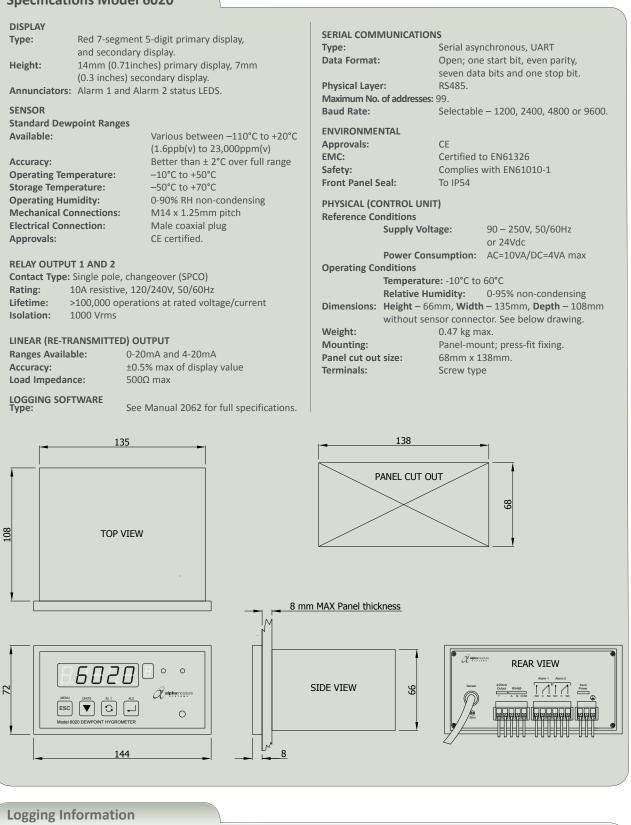
Model 6020 contains two independent, fully user programmable alarm contacts to provide all the versatility required for any application. A digital communication channel is provided via a RS485 serial connection for remote interrogation of measured values and status of alarms and instrument.

Should the need arise to set up the instrument differently to the factory provided configuration then a highly flexible, user configurable setup menu is built in. The features within the setup menus are protected by user configurable passwords to limit access and protect against unauthorised changes.

Features

- Works with a range of sensors covering an overall range from -110°C to +20°C dewpoint (-166°F to +68°F)
- Units selectable for °C T_d, °F T_d, ppm(v), ppm(w), g/m³ or lb/MMSCF
- System accuracy better than ±2°C dewpoint equivalent
- Calibrations traceable to International Humidity Standards
- AutoCal calibration adjustment to maintain accuracy between laboratory calibrations
- On board pressure dewpoint calculator, including data for Natural Gas
- Molecular mass pre-loaded for ppm(w) in common gases, other gases can be entered
- Two fully programmable alarms with 10A relay contacts and status LEDs
- An analogue current output linear and range configurable for selected units
- RS485 port for digital output of measured value
- Large, easy to read, 5-digit LED display
- Hot Key functions for rapid access to set alarms and units, can be locked to prevent tamper
- Ex certified sensors for Hazardous Area use (via Zener barrier in Safe Area) 🚱
- Sensor cable length can be up to 1 km

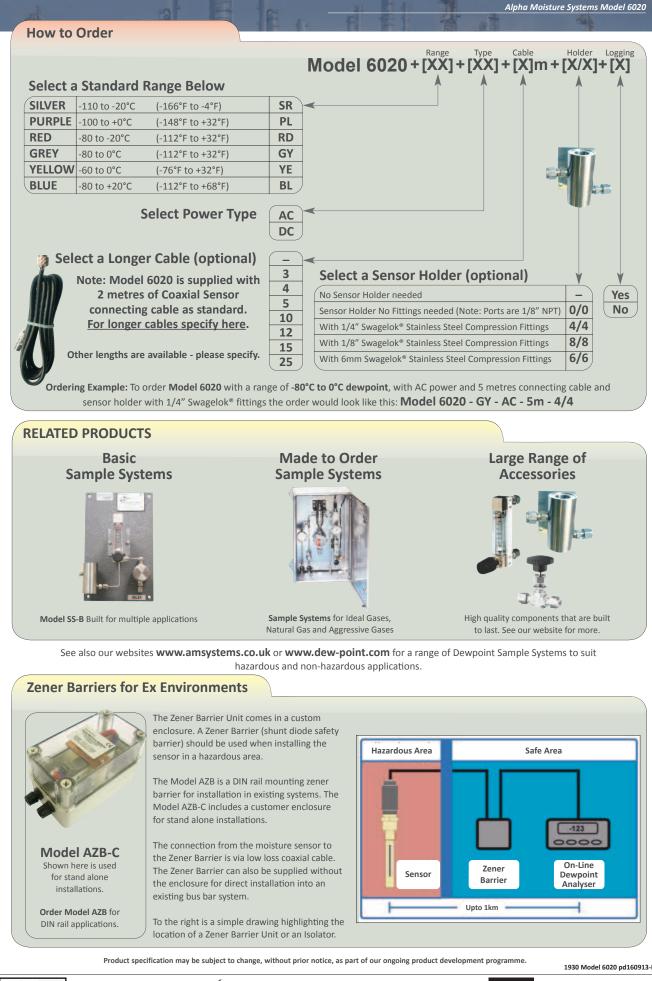
Specifications Model 6020



Model 6020 External Logger Software v1.

Scree Easy install using Install Wizard from CD y. Multi function graph tools PC specification: PC should be running Windows 2000[®], WindowsXP®, Windows Vista® or Windows 7® (all 32 bit compatible). For 64 bit versions please contact your distributor. Minimum screen resolution of 1024 x 768 pixels. Kit components include:-CD installation disk + Manual USB to USB cable Male 9 way 'D' type on USB - RS485 Converter unit. Cable from Display Unit to RS485 connection is not included*

* When placing order indicate length of cable, example: 3 meters.







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