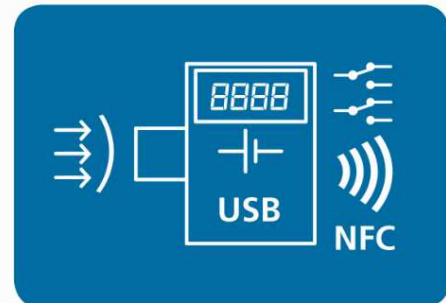


- UP TO 100 BAR PRESSURE/ TEMPERATURE DISPLAY WITH SCALING/ LINERIZATION
- BATTERY POWERED, USB AND NFC INTERFACE
- DUAL RELAYS, MAX/ MIN INFORMATION
- USER SET DISPLAY MESSAGING
- 3600 POINT LOGGER WITH USB AND NFC INTERFACE
- INTRODUCTION



The DM670PM series of battery powered indicators accept gauge pressure inputs up to 100 bar and displays the sensor pressure in BAR, PSI or the user's engineering unit on a 6-digit LCD display. The instrument offers an advanced display mode allowing the user to also display one or two (1 to 32) character messages. Additional to the messages, the user may select an alert event to occur when the pressure is within a band. The two change-over relays can be used together with the messaging and alerts to provide switching at user set points. In addition to this on board datalogging is also available to record process details at up to 3600 points.

➤ FEATURE HIGHLIGHTS

DUAL RELAYS

The instrument is equipped with dual volt-free change over type relays, operating independently. The user may select one of seven actions including deviation, latched or non-latched operation, with fully adjustable set point and dead-band. The Relays may be turned off if not required to extend battery life. An option is provided to trigger an alert event when a relay contact is on.

DATA LOGGING FUNCTION

DM670PM also provides a powerful data logging function. The log points can be set up to 3600 points, each point is time and date stamped together with process value, temperature and relay state information. The log rate is selectable in steps. The start of log can be delayed if required. Either fixed or rolling logs may be performed.

Two methods of reading the log are available. The USB configuration reads the log and allows the user to save to a text file for export to other programs. While the NFC android interface allows data transfer to android phones or tablets and using the downloadable App the data can be graphed and forwarded by email, Bluetooth etc. The NFC interface is also capable of starting a new log with different log period and modes.

CALIBRATION/ USER LINEARIZATION

5-point calibration can be applied using the USBSpeedLink software

As well as straight line interpolation up to 22 points (x,y) of user linearization are available for creating custom curves and corrections.

REAL TIME CLOCK

Date and time stamped maximum, minimum and average temperature values as well as relay on and relay off data is recorded and can be displayed along with the current time and date. The real time clock is also used to record the data logged points.

INPUT PRESSURE		SPECIFICATIONS @20 °C
Type	Range	Accuracy/ stability
Sealed gauge *1	(0 to 3) bar (0 to 30) bar (0 to 100) bar	±0.5% of full scale between (0 to 50) °C *2 ±0.7% of full scale between (-10 to 80) °C *2
Overpressure	4 x pressure range	Up to maximum 350 Bar
Thermal drift		(-10 to 80) °C compensated
*1 Shows zero Bar at 1.0 Bar absolute		
*2 Total error band: Maximum deviation within specified pressure and operating temperature range		
To maintain full accuracy annual calibration is required contact support@status.co.uk for details		

INPUT Temperature		SPECIFICATIONS @20 °C
Type	Range	Accuracy/ stability
	(-40 to 110) °C	Typically, ±2.0 °C

DISPLAY	
Type/ options/ function	Description
Display height	15.8 mm non-backlit
Display information options Some information is displayed scrolling.	6 digits 14 segment input value plus “Warning”, “Transmit”, “NFC”, “USB”, “Log”, “Battery”, “Off-set” icons, 8 segment log volume indicators. Maximum, minimum, average*1. Date and time. Custom messages for visual alarms/ information. Relay condition.
High intensity LED	Alarm and warning options
*1 Rolling average data log is independent of data logging	

RELAYS Relay 1 and Relay 2	
Type/ options/ function	Description
2 x independent relays	Single pole change-over (common, N/o, N/c)
Rating	48 VDC maximum @ 1 A (5 mA minimum) 28 VAC RMS maximum @ 1 A

USB CONFIGURATION USER INTERFACE		
Type/ options/ function	Description	Notes
Configuration hardware	USB Mini B port	Cable not included
Configuration software	USBSpeedLink	Download www.status.co.uk
Operating system	Microsoft Windows	Win 7 or later
Sensor configuration	User calibration Off-set in Bar	Up to 5 points Applied by button action
Display configuration	Display mode Pressure units Custom units	Basic with advanced options °C or °F Bar/ PSI/ mBar/ Pa/ KPa/MPa Kgf/m ² / Kgf/cm ² / Kgf/mm ² Atm/ custom units (any) With 22-point linearization
Pre-set sensor to setpoint	Locks input value to setpoint	For diagnostics
LED alert (advanced mode)	Eight user adjustable pressure bands	Alert LED flash
Warning symbol	Out of range Low battery level	Warning symbol will flash on LCD display