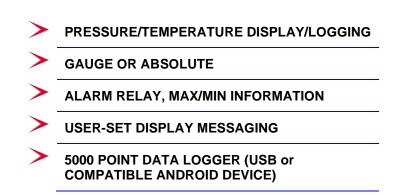
## DM650PM FIELD/WALL MOUNTED PRESSURE DISPLAY



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The DM650PM battery powered indicator accepts gauge or absolute pressure 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. A change-over relay 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 pressure and process temperature details at up to 5000 points. Force calculations (Ram force for example) can also be performed and displayed.



### FEATURE HIGHLIGHTS

#### RELAY

The instrument is equipped with single volt-free changeover-type relay. The user may select one of several actions, including deviation operation, with fully adjustable set point and dead band. An option is provided to trigger an alert-event when a relay contact is on.

#### DATA LOGGING FUNCTION FOR PRESSURE AND TEMPERATURE

DM650PM also provides a powerful data logging function. The log points can be set up to 5000 points; each point is time and date-stamped together with pressure, 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 programmes. The NFC android interface allows data transfer to compatible android phones or tablets, by 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-LINEARISATION

5-point calibration can be applied using the USBSpeedLink software.

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

#### **REAL-TIME CLOCK**

Date and time can also be displayed with the input pressure. The real-time clock is used to record the data logged points.

INPUT			SPECIFICATIONS @20°C
Pressure			
Туре	bar Gauge =	= bar Absolute	Accuracy/stability
Sealed gauge *1	-0.5 to 0.5	0.5 to 1.5	
	0 to 3	1 to 4	±0.15% of full scale at 20°C *2
	-1 to 9	0 to 10	±0.5% of full scale between (0 to 50) °C *3
	0 to 30	1 to 31	±0.7% of full scale between (-10 to 80) °C *3
	0 to 100	1 to 101	
	Other ranges		Contact sales@status.co.uk
Overpressure	4 x pressure ran	ge	Up to maximum 350 Bar
Thermal drift	(-10 to 80) °C co	mpensated	
*1 Shows zero bar at 1.0 bar absolute, use custom scaling to display as absolute			
*2 Linearity best straight line, hysteresis, repeatability			
*3 Total error band: Maximum	deviation within s	pecified pressure	and operating temperature range
To maintain full accuracy annual calibration is recommended: contact support@status.co.uk for details			

INPUT SPECIFICATIONS @2 Temperature		SPECIFICATIONS @20°C
Туре	Range	Accuracy/stability
Medium temperature	(-40 to 110)°C	Typically, ±2.0°C
	•	

DISPLAY	
Type/options/function	Description
Display height	7.9 mm non-backlit
Display information options	6 digits 14 segment input value plus "Warning"," Transmit", "NFC", "USB",
Some information is displayed	"Log", icons, 8 segment log volume indicators. Maximum, minimum. Date and
scrolling.	time. Custom messages for visual alarms/information. Relay condition.
High intensity LED	Alarm and warning options

RELAY	
Type/options/function	Description
Independent relay	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	Up to 5 points
	Off-set in Bar	Applied by button action
Display configuration	Display mode	Basic with advanced options °C or °F
	Pressure units	Bar, PS I, mBar, Pa, KPa, MPa Kgf/m², Kgf/cm², Kgf/mm² Atm, custom units (any)
	Custom units	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

# DM650PM FIELD/WALL MOUNTED PRESSURE DISPLAY

USB CONFIGURATION USER (Continued)		
Basic display mode	Update rate	1 s, 5 s
	Display variable options	Input, input + units, input + units +
	<b>-</b>	temperature
	Temperature units	°C or °F
	Alert LED	
Advanced display mode *1	Display variable (see basic mode	
Battery monitor	Alert LED plus message	Relay option link in software
Logger	Set device passkey number	Device passkey is used to protect the
	Clear, start new log	NFC interface.
Other device options	Synchronise clock	
	Write tag, contact address	
	Read, reset maximum and	
	minimum input values	
	Latitude longitude settings	
Relay control	Name(s)	10 characters
-	Action	High, low, band, low battery, on, off
	Setpoint	In engineering units
	Dead band	In engineering units
	Latch	On, off
Live data	Read sensor pressure	bar
	Read displayed value	Selected engineering unit
	Read sensor temperature	°C 0°
	Relay 1 state. Relay 2 state	
	Time and date	
*1 Only use advanced display	above -5°C ambient temperature, be	low use basic display

USB LOGGER USER INTERFACE		
Type/options/function	Description	Notes
Logger hardware	USB Mini B port	Cable not included
Logger software	USBLogLink	Download www.status.co.uk
Operating system	Microsoft Windows	Win 7 or later
Logger records pressure and	Start/set log parameters	Interval, rate, (delay) start,
temperature points	Read log parameters	number of points, rolling or fixed log
	Stop, start new log	
	Synchronise device clock	
	Reset maximum and minimum	
	Synchronise, read clock	
	View log data, graph log data	Save data to CSV file

NFC ENABLED ANDROID DEVICE REQUIREMENTS		
Тад Туре	NFC Forum Tag Type 4 (max capacity 65536 Bytes)	
RF Interface	ISO/IEC 14443 Type B Compliant (13.56 MHz)	
Android device Compatibility to read NFC Tag type 4 to full capacity 65536 bytes		
Note: If the android device cannot read full bytes the maximum number of log points will be reduced.		

NFC LOGGER USER INTERFA	ACE	
Type/options/function	Description	Notes
Logger software	NFCLogLink	@ Google Play Store
Operating system	Android V4.4 Kitkat or later	NFC enabled
Logger records pressure and	Start, set log parameters	Interval, rate, (delay) start,
temperature points	Read log parameters	number of points, rolling or fixed log
	Stop, start new log	
	Synchronise, read clock	
	Reset maximum and minimum	
	View log data, graph log data	Save data to text file
	Transfer data via email etc.	Standard Android functions

GENERAL	
Function	Description
Update rate	1 or 5 seconds
Relay response time	< 10 seconds
Battery	1 x (AA 3.6 V lithium)
Battery life	1 year minimum @20°C (longer depending on options selected)
Clock accuracy	±2 seconds per month typically

### ENVIRONMENTAL

Function	Description
Ambient housing temperature	Operating/storage (-30 to 70)°C
Ambient sensor temperature	Operating (-40 to 110)°C
Ambient humidity	Operating/storage (10 to 90) %RH non-condensing
Protection	IP67, cable entry must be sealed to IP67
USB configuration ambient	(10 to 30)°C

### CONNECTIONS

Sensor to process	1/4 inch BSP male with adaptor options (see accessories)
Output relay	Two-part screw connectors
USB connection	USB mini B port

MECHANICAL			
Enclosure (case)	ABS, grey base, grey clamp ring, side or base mount options		
Display cover	Polycarbonate, clear		
Case entry	1 x M20 female thread, blanking plug supplied		
Front bezel diameter	65 mm		
Weight (approximate)	250 g		
Material in contact with media	Stainless steel 316L		
O-ring	Viton		

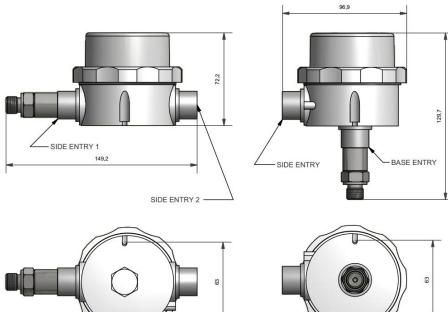
APPROVALS		
EMC	BS EN 61326	
Ingress protection	BS EN 60529	
RoHS	Directive 2011/65/EU	

### DM650PM FIELD/WALL MOUNTED PRESSURE DISPLAY

ORDER CODE	DM650PM	l	
Case	Body Type	(	Order Input range required in bar gauge
Side mounted can be wall mounted	/В	/option	B = (-0.5  to  0.5) $C = (0  to  3)$ $D = (0  to  30)$ $E = (-1  to  9)$
Base mounted	/C	/option	G = (0 to 100) See Input specification for absolute ranges
Example:			Please state required cable entry
Side mounted, (0 to 30) bar, M20 cable entry			(Default M16 with blanking plug) M16, M20, M24, ½ inch BSP, ½ inch NPT
DM650PM	/B	/D	/M20

Body type B

Body type C



#### ACCESSORIES Swivel adaptor 1/4 BSPP SA14BSP Swivel adaptor 1/2 BSPP SA12BSP Swivel adaptor ¼ NPT SA14NPT Swivel adaptor other options available sales@status.co.uk Hygienic fittings available sales@status.co.uk USBSpeedLink free of charge from www.status.co.uk Configuration software USB logging software USBLogLink free of charge, from www.status.co.uk NFCLogLink free of charge refer to Google Play Store NFC logging software USB lead USB lead, part number 42-200-0001-01 Battery 3.6 V lithium Contact sales@status.co.uk

To maintain full accuracy annual calibration is required: Contact support@status.co.uk for details The data in this document is subject to change. Status Instruments assumes no responsibility for errors

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STATUS INSTRUMENTS