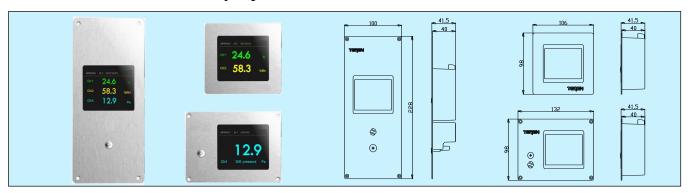
MFDP Multi-function Display Unit/Transmitter





Applications& Features

- Designed for flush mount, measure and display environment temperature, humidity and diff. pressure
- •316L front panel, PMMA window, flat surface, no dust stay, good for all detergents, sanitizers and bactericides
- Parallel or alternatively display input channels 1 to 3
- Large high light 3.2" color TFT LCD display
- Multiple inputs and outputs for different applications
- •High accuracy sensor, 100% field changeable
- Optional 3 analog 4~20mA/0~10V inputs signals
- Optional 3 analog 0~10V outputs signals
- Optional RS485/Modbus RTU and alarm functions
- Compatible to any DDC/PLC/SCADA or other data collect and control systems
- •Very high performance/price ratio: replace the single channel (T/RH/DP) display instruments, provide value added multi-function combination including measurement, displaying and networking

Specifications

Display

Display: high light 3.2" color TFT LCD, resolution 320×240

Display panel material: PMMA Resolution: ±0.1 engineering unit

Channels: 1~3 channels, parallel (simultaneously) or single

row(alternate) display

Engineering unit: 3 preset units, °C/°F, %RH and Pa

Response time: <1s

Housing

Front panel material: 316L stainless steel, 1.5mm thick Back housing parts: fire-proof ABS+PC UL94 V-0 class Protection: front panel IP65 (built-in temperature and

humidity sensor window IP54)

Weight: about 500~1000g, depending on different models

Technical Specifications

Power Supply: 16~28VAC/16~35VDC

Consumption: 15~20VA

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Built-in sensor:										
	Temperature	Humidity	Diff. pressure							
Range	0~50°C	0~100%RH	0~60Pa							
Accuracy	0.4°C/0.3°C	3%/2%RH	1%/0.5%FS							
Nonlinear	/	<0.1%RH	/							
Repeatability	±0.1°C	±0.1%RH	/							
Hysteresis	/	±1.0%RH	/							
Long term drift	<0.02°C/Year	<0.25%RH/Year	<0.5%FS/Year							
Response time	(T63%)5~30s (25°C,in slow air)	(T63%)<10s (25°C, in slow air)	0.5~30s							
Temp drift	/	/	<0.05%FS/°C(zero) <0.08%FS/°C(span)							
Temp. comp.	/	/	0~50°C							
Medium Temp.	/	/	0~60°C							
Work Temp.	/	/	10xFS(over load) 15xFS(burst)							

Analog inputs: max. 3x4~20mA/0~10V; over voltage and reverse polarity protection; accuracy< 0.1%FS; load resistance < 250Ω(4~20mA) or >100K Ω (0~10V); range: default 0~50°C /0~100%RH/0~60Pa, available range -50~100°C /0~100%RH /-100~100Pa

Analog outputs: max. 3x0~10V; over voltage and reverse polarity protection; accuracy as low as 0.1%FS; load resistance >2KΩ; range: same as analog inputs

Alarm: Buzzer (60db@10cm)+flash, with keys for setting Communication: 1 USB for parameter checking and setting, 1 RS485/Modbus RTU, R/W enable, 9600 baud rate

Terminals: max Ø1.5mm²

Work Environment: 0~50°C, 0~95%RH (no cond.)

Storage Environment:-10~70°C

Process connection: Built-in T/RH sensor: a waterproof, air breathable filter and sensing window on front panel. Built-in diff. pressure sensor: 2 conical nozzles, Ø 5 mm tube connection on back, or 1 pressure sampling screw on front panel.

Approval: CE

Models

Model	MFDP								Multi-function Display Unit
Temp. Hum. Input		0							N/A
		1							Analog signals (2 channels)
		2							Built-in T/Rh sensor, accuracy 0.4C/3%
		3							Built-in T/Rh sensor, accuracy0.3C/2%
		8							RS485-Modbus RTU
Diff. Press. Input			0						N/A
			1						Analog signal(1 channel)
			2						Built-in DP sensor, accuracy 1%
			3						Built-in DP sensor, accuracy 0.5%
			8						RS485-Modbus RTU
Output				0					N/A
				1					0~10Vx1 (diff. pressure)
				2					0~10Vx2 (T/Rh)
				3					0~10Vx3 (T/Rh+DP)
				8					RS485-Modbus RTU
Alarm					0				N/A
					1				Buzzer+flash, with keys for setting
Panel Port						0			N/A
						1			1 pressure sampling screw on front panel
Panel Types							М		MINI type
							Н		Horizontal type
							٧		Vertical type
Screw Hole								0	N/A
								1	4 holes at corners, with SS screws
Note:									

- 1. When selecting RS485, only the selected channel has the corresponding function, and the other channels do not have.
- 2. When the built-in temperature / humidity sensor is selected, the front panel has a corresponding sampling window.
- 3. The total number of output channels should NOT be more than input.
- 4. MINI model does not have any built-in sensors, and can not have diff. pressure port on front panel.

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