

Compact Digital Pressure Switch Model: MDI 11

Applications

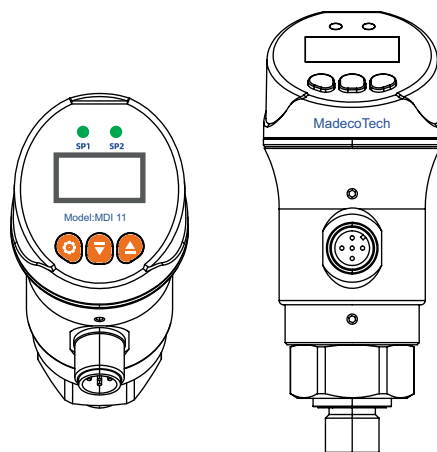
- Machine tool drive monitoring
- Automated production line
- High speed train
- Hydraulic equipment
- Other occasions to replace mechanical pressure switches
- Automatic control equipment

Special features

- 304 stainless steel shell, IP65/66 structural design
- Double-stage rotation structure, quickly adjust the screen orientation
- OLED screen design, wide viewing angle range and high resolution
- Multiple output modes optional: 4~20mA, PNP/NPN switchable
- Dual-channel alarm lights, multi-function button design



MDI 11 is a digital pressure switch with an OLED screen suitable for hydraulic environments. The product is designed with a 304 stainless steel case and a plastic case head. The protection capability can reach IP65 level. The product can be used in harsh environments. This pressure switch adopts a universal threaded joint design. It is designed for high load conditions in hydraulic environments and is equipped with an ED sealing method to achieve good long-term stability. This product is equipped with a double-section rotating structure that can adjust the screen orientation to ensure that customers can obtain good viewing angles in different installation positions. This pressure switch is equipped with multiple function buttons. Users can quickly set hysteresis value, upper and lower limit settings, hysteresis mode/window mode and other functions. Equipped with a standard 5-core M12 aviation plug line (1 meter), users can directly replace the old mechanical pressure switch.



Description

Technical Parameters:

- Measuring Range -1 ~ 600 bar
- Accuracy Level $\pm 0.5\%$ FS
- Overload Pressure $\leq 10\text{MPa } 200\% - >10\text{MPa } 150\%$
- Destroying Pressure $\leq 10\text{MPa } 300\% - >10\text{MPa } 200\%$
- Screen Display Mode OLED
- Screen Resolution 128*64
- Supply Voltage 12~28VDC
- Output Signal
Output 1: NPN or PNP (switchable)
Output 2: NPN or PNP (switchable)
Other outputs 4~20mA
- Load Current $\leq 100\text{mA}$
- Operating Temperature $(-20 \sim 65)^\circ\text{C}$
- Electrical Connections M12 plug
- Electrical Protection Anti-reverse connection protection, anti-electromagnetic interference
- Threaded Port M20*1.5, G1/4, NPT1/4 or customized thread
- Interface Material 304 stainless steel
- Diaphragm Material 316L stainless steel
- Protection Level Ip65/66
- Accessories M12 standard 5-core 12-pin cable (1meter)

code	bar	Range (kPa)	mBAR	mmHg	mmH2O	Mpa	Kgf/cm2		
M1	-1 ... 0	-100 ... 0	-1000 ... 0	-750.0671 ... 0	-10197.162 ...0	-0.1 ... 0	-1.019 ... 0		
M2	-1 ... +1	-100 ... +100	-1000 ... 1000	-750.0671 ... +750.0671	-10197.162 ... +10197.162	-0.1 ~ +0.1	-1.019 ... +1.0197		
M3	-1 ... +2	-100 ... +200	-1000 ..2000	-750.0671 ... +1500.12	-10197.162 ... +20394.32	-0.1 ~ +0.2	-1.019 ... +2.039		
M5	-1 ... +5	-100 ... +500	-1000 ... 5000	-750.0671 ... +3750.380	-10197.162 ... +50985.81	-0.1 ~ +0.5	-1.019 ... +5.0985		
M7	-1 ... +10	-100 ... +1000	-1000 ... 10000	-750.0671 ... +7500.62	-10197.162 ... +101971.6	-0.1 ~ +1	-1.019 ... +10.1972		
M00	0 ... 0.25	0 ... 25	0 ... 250	0 ... +187.5154	0... +25492.90	0 ~ +0.025	0 ... +0.2549291		
M01	0 ... 0.4	0 ... 40	0 ... 400	0 ... +300.0247	0... +4078.86	0 ~ 0.04	0 ... +0.4078		
M02	0 ... 0.6	0 ... 60	0 ... 600	0 ... +450.037	0... +6118.29	0 ~ 0.06	0 ... +0.6118		
M03	0 ... 1	0 ... 100	0 ... 1000	0 ... +750.0617	0... +10197.16	0 ~ 0.1	0 ... +1.0197		
M04	0 ... 2.5	0 ... 250	0 ... 2500	0 ... +1875.15	0... +25492.90	0 ~ 0.25	0 ... +2.54929		
M05	0 ... 4	0 ... 400	0 ... 4000	0 ... +3000.247	0... +40788.64	0 ~ 0.4	0 ... +4.0788		
M06	0 ... 6	0 ... 600	0 ... 6000	0 ... +4500.37	0... +61182.97	0 ~ 0.6	0 ... +6.1182		
M07	0 ... 10	0 ... 1000	0 ... 10000	0 ... +7500.617		0 ... 1	0 ... +10.197		
M08	0 ... 16	0 ... 1600	0 ... 16000	0 ... +12001		0 ... 1.6	0 ... +16.3155		
M09	0 ... 25	0 ... 2500	0 ... 25000	0 ... +18751.5		0 ... 2.5	0 ... +25.4929		
M10	0 ... 40	0 ... 4000	0 ... 40000	0 ... +30002.47		0 ... 4	0 ... +40.788		
M11	0 ... 60	0 ... 6000	0 ... 60000	0 ... +45003.7		0 ... 6	0 ... +60.182		
M12	0 ... 100	0 ... 10000	0 ... 100000	0 ... +75006.17		0 ... 10	0 ... +101.97		
M13	0 ... 160	0 ... 16000	0 ... 160000	0 ... +120010		0 ... 16	0 ... +163.155		
M14	0 ... 250	0 ... 25000				0 ... 25	0 ... +254.92		
M15	0 ... 400	0 ... 40000				0 ... 40	0 ... +407.88		
M16	0 ... 600	0 ... 60000				0 ... 60	0 ... +611.82		
M17	0 ... 700	0 ... 70000				0 ... 70	0 ... +713.801		
M18	0 ... 1000					0 ... 100	0 ... +1019.7		
M19	-1 ... 40	-100 ... 4000	-1000 ... 40000	-750.0671 ... +30002	-10197.162 ... +40788	-0.1 ... 4	-1.019 ... +40.788		
L1	15 mbar	L2	25 mbar	L3	60 mbar	L4	100 mbar	L5	160 mbar
For special range, please use the code XX and mention the range in the order									

MDI 11 Compact Digital Pressure Switch

ORDERING CODE	Example:	MDI 11	M11	T	6	D	C	AT	I	C	WA	Note
Range												
Select a range from the table			M11									
Process Connection Type												
T - Bottom				T								
Process Connection Sizes												
2 - G 1/4" Male												
4 - 1/4" NPT												
6 - Customer					6							
Power Supply												
A - 220 VAC												
D - 24 VDC						D						
Process Connection Material												
S - 304 Stainless steel												
L - 316L Stainless steel												
H - Hastelloy												
C - Customer							C					
Accuracy												
AT - 0.5% (std.)								AT				
AC - 0.25%												
Certificate												
N - None												
I - Intrinsically safe (Ex ib IIC T4)									I			
Output												
D - Two sets of switches Output												
A - 4...20 mA-One set of Switch Output												
R - RS485												
C - Customer										C		
Options												
CM - Material Traceability certification												
CP - Hydrostatic testing with certificate												
CL - Cleaning for special service												
YW - 316L Stainless steel case												
OS - Overload stop												
CC - Calibration certificate												
NH - Stainless steel tag wired to case												
AT - ATEX												
IA - Intrinsically safe (II 1/2 Ex ia IIC T4/T5)												
WA - One year warranty											WA	
NS - NACE MR 0175 & NACE MR 0103 standard												
Other												



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