

Model MC2085 Pressure Switch (Pressure Controller)



MC2085 Pressure Switch (Pressure Controller) is an intelligent digital display pressure measurement and control product integrating pressure measurement, display, output and control. The product features a full electronic structure, and the output signal is amplified by a high-precision and low-temperature drift amplifier which is converted into digital signals that can be processed by the microprocessor. This product is widely used in pneumatic, hydro power, tap water, petroleum, chemical, mechanical, hydraulic and other industries.

MC2085 Pressure Switch (Pressure Controller) measure pressure by a diffused silicon sensor, and the signal is processed by a post-processing circuit and converted into a standard industrial electrical signal for output and display. The all-metal housing design with a highlighted LED digital display, enables the series to be used in a variety of industrial applications. Double key and menu design make the product more convenient to use, and various connection methods can fully meet various specific installation needs. The 330° rotating display head ensures the best viewing angle under different installation modes.

Technical parameters

Power supply voltage: 12...30 VDC

Switch output: PNP/NPN, NO/NC optional

S1, S2 output current: <500mA

Response time: <10ms

Accuracy: $\leq \pm 0.5\%FS$

Output type: 4-20mA, 0-5V/0-10V, 0-20mA

Display: red 4-bit 8mm high brightness LED

Display range: -1999... 9999

Stability: $\leq \pm 0.3\%FS/year$

Temperature: -20...85°C

Ambient temperature: -20...80°C

Storage temperature: -30...80°C

Materials: stainless steel

Protection level: IP67

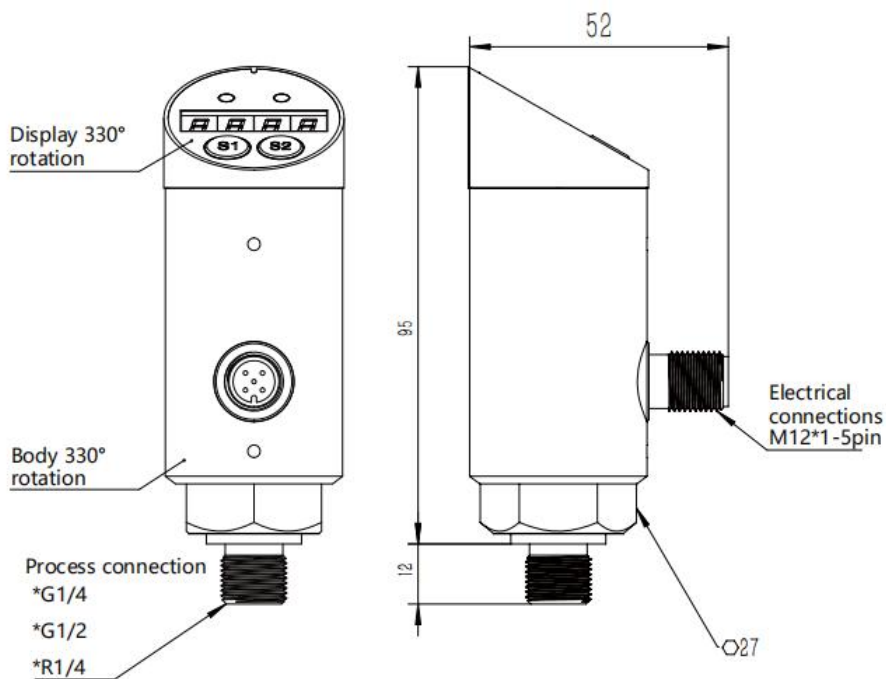
Wire connector: M12x1

Pressure Range	bar	1	2	5	10	16	25	60	100	160	250	400	600
	psi	15	30	75	145	230	370	900	1500	2300	3600	6000	9000
Max. Overload pressure		x5			x3			x2			x1.5		x1.3
Min. damage pressure		x6			x4			x3			x2		x1.6

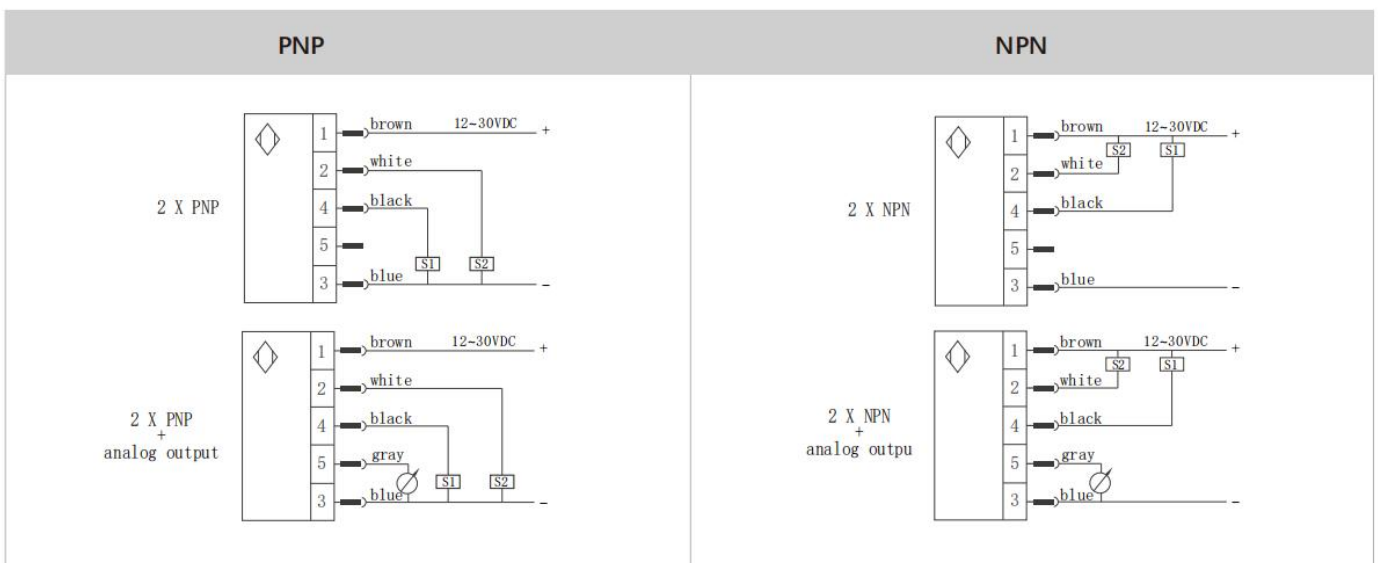
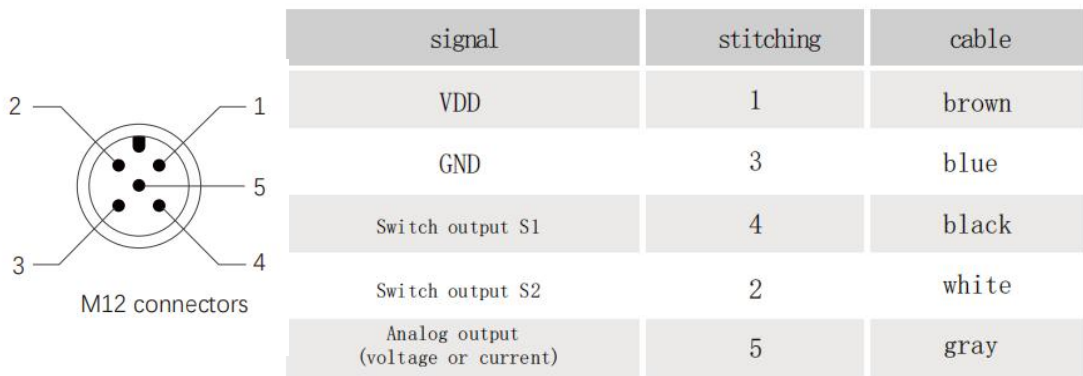
Ordering Codes (Model selection)

MC2085	Pressure Switch (Pressure Controller)	
-	Pressure range	e.g. 0-10bar or 0-1MPa etc.
-	Signal output	S2: 2 switches outputs A3: Switch + 0...20mA/4..20mA) V5: Switch + 0...5V/1...5V V10: Switch + 0...10/1...10V
-	Switch type	P: PNP output N: NPN output
-	Installment	G14M: G1/4 male thread G12M: G1/2 male thread G14F: G1/4 female thread N14M: NPT1/4 male thread R14M: R1/4 male thread M20M: M20*1.5 male thread K50: Clamp (OD 50.5mm)

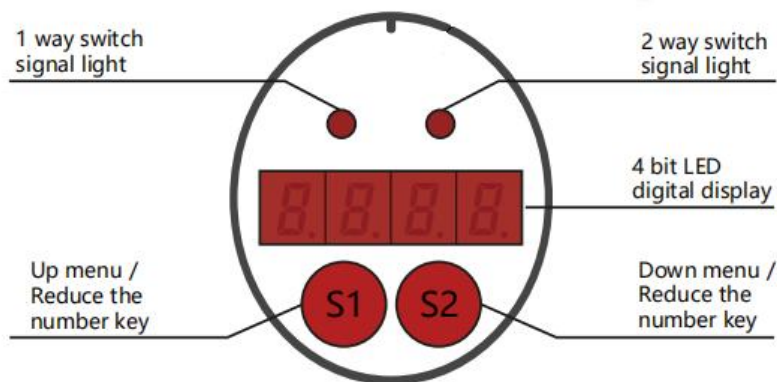
Dimensions



Wiring



Controlling Points Preset Step:




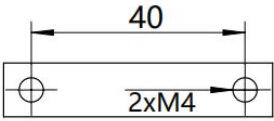
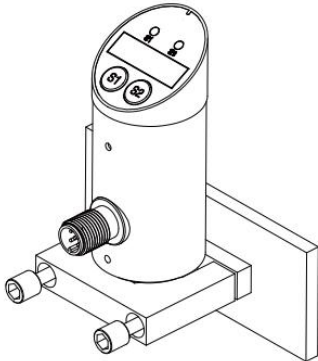
- Press S1: turn to back menu / add the number
- Press S2: turn to next menu / reduce the number
- S1 + S2 (press S1 and S2 simultaneously): enter / exit menu
- Press S2 for 5 seconds to reset zero

Menu and setting operation process: Press S1 + S2 to enter the LOCK password, change the password through S1 (password 0001 for setting the switch points and password 0066 for advanced menu) , press S1 + S2 to enter the menu, and press S1 + S2 to exit the setting. After the parameters are set, press S1 + S2 to save and exit when the menu is at END channel.

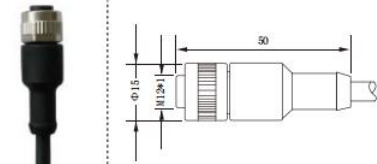
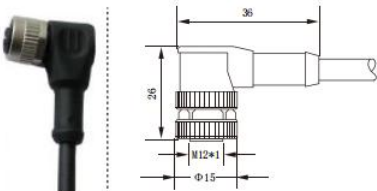
Password 0001 menu:	
AL1H	Switch 1 connected (when pressure reaches this point)
AL1F	Switch 1 opened (when pressure returns to this point)
AL1D	Switch 1 action delay (resolution of 0.1 seconds)
OUT1	Switch 1 NO / NC select
AL2H	Switch 2 connected (when pressure reaches this point)
AL2F	Switch 2 opened (when pressure returns to this point)
AL2D	Switch 2 action delay (resolution of 0.1 seconds)
OUT2	Switch 2 NO / NC select
END	Complete and confirm, exit

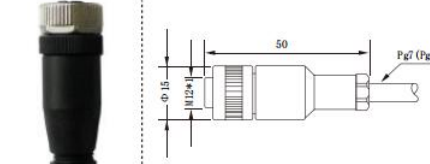
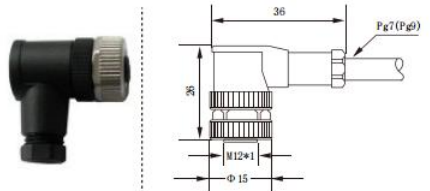
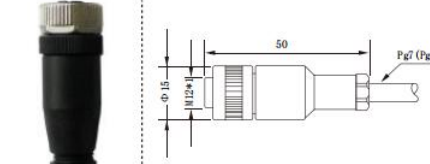
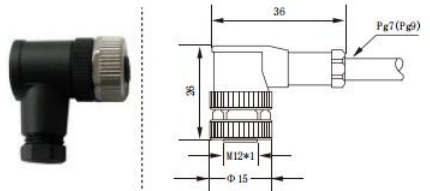
Password 0066 menu:	
DSAL	The default value is 0 which means this function closed. 1 represents over-range indicate, if over-range 120% then display flashing.
BS-L	The value corresponding to 4mA output, default is minimum range value
BS-H	The value corresponding to 20mA output, default is minimum range value
OFST	Display value compensation, default is 0. If increase and decrease the value, the actual display value corresponds to increase or decrease the corresponding value.
FILT	The filter coefficient is adjustable in 0-4. Default is 1. In interference situation, the larger the filter value, the more stable, and the display rate is relatively lower.
SPDL	Display value reaction accelerated / decrease rate
A-04	4mA output calibration
A-20	20mA output calibration
AL1P	Switch 1 output lag / window mode switch
AL1C	Switch 1 hysteresis (pressure difference) setting
AL2P	Switch 1 output lag / window mode switch
AL2C	Switch 1 hysteresis (pressure difference) setting
BACK	Restore the factory settings
END	Complete and confirm, exit

Optional accessories

installation accessories	hole size (mm)	Installation effect drawing
		

Optional accessories - electrical accessories

name	Outline drawing/dimension drawing (mm)	material	model
M12*1-5Pin (2m cable)		PUR	ZL05-PU02G
M12*1-5Pin (5m cable)			ZL05-PU05G
M12*1-5Pin (10m cable)			ZL05-PU010G
M12*1-5Pin (2m cable)		PVC	ZL05-PC02G
M12*1-5Pin (5m cable)			ZL05-PC05G
M12*1-5Pin (10m cable)			ZL05-PC010G
M12*1-5Pin (2m cable)		PUR	ZL05-PU02W
M12*1-5Pin (5m cable)			ZL05-PU05W
M12*1-5Pin (10m cable)			ZL05-PU010W
M12*1-5Pin (2m cable)	PVC	ZL05-PC02W	
M12*1-5Pin (5m cable)		ZL05-PC05W	
M12*1-5Pin (10m cable)		ZL05-PC010W	

M12* 1-4pin /5Pin self-connector/size drawing (mm)	model
	GL04 (4Pin joint)
	GL05 (5Pin joint)
	WL04 (4Pin joint)
	WL05 (5Pin joint)