

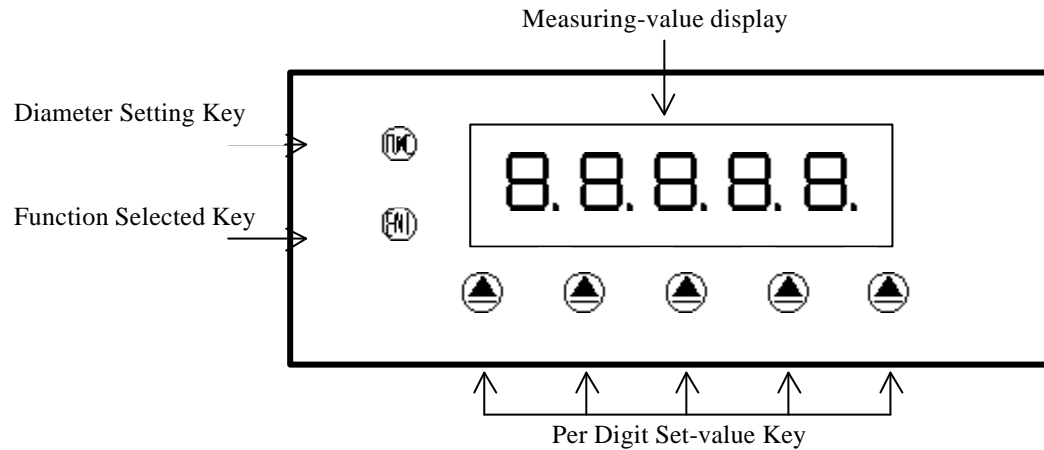
AXE MICROPROCESS RPM/LINE-SPEED/HZ METER

MR series

FEATURES

<p>Accept more type sensor(MOS/TTL/NPN/PNP), finish RPM/LINE-SPEED /HZ measuring</p> <p>Accuracy 0.01% F.S.</p> <p>Readout range 0~99999</p> <p>Accepts input rates up to 50KHz</p> <p>Decimal point can be modified</p> <p>Input pulse of revolution can be modified(1~9999)</p> <p>Diameter(LINE-SPEED)/scale(RPM)can be modified(0.0001~9.9999)</p>	<p>LINE-SPEED unit can be modified(Meter/Min, Foot/Min, Yard/Min) *Meter/Min is calculate base</p> <p>Input pulse cut-off sampling time can be modified(0.1~99.9 sec)</p> <p>Display average times can be modified(1~99 times)</p> <p>Display type of RPM or LINE-SPEED can be modified</p> <p>0.56" highlight display</p> <p>Man-machine interface,easy to operate</p> <p>EEPROM saveing,data safekeeping about 10 years</p>
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NAME OF PARTS

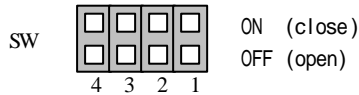


Input Function Jumper Description

SW 1&2 -> Input pulse type selection
 SW 3 -> Input pulse trigger levels
 SW 4 -> Input pulse max. rate

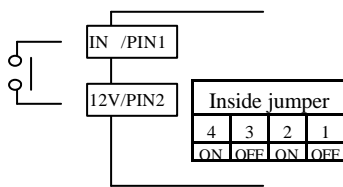
Description:

SW1=ON(SW2=OFF)->NPN pulse input(sinking)
 SW2=ON(SW1=OFF)->PNP pulse input(source)
 SW3=OFF -> Vin 7.5V pulse trigger
 Vin 5.5V pulse no trigger
 SW3=ON -> Vin 3.7V pulse trigger
 Vin 2.0V pulse no trigger
 SW4=OFF -> Input pulse max. rate 50KHz
 SW4=ON -> Input pulse Max. rate 50Hz

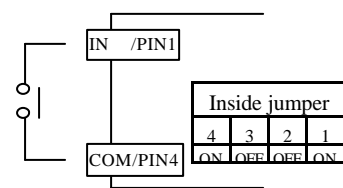


Connect Diagram

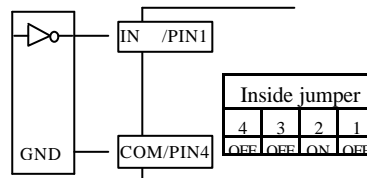
Contact input(PNP)



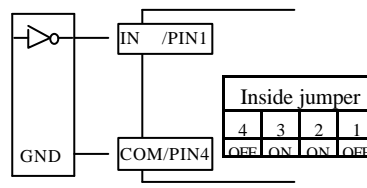
Contact input(NPN)



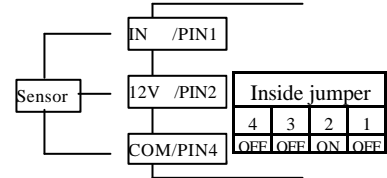
CMOS input(12V or 15V)



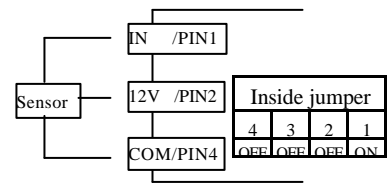
TTL input(5V)



Sensor input(PNP 12V)



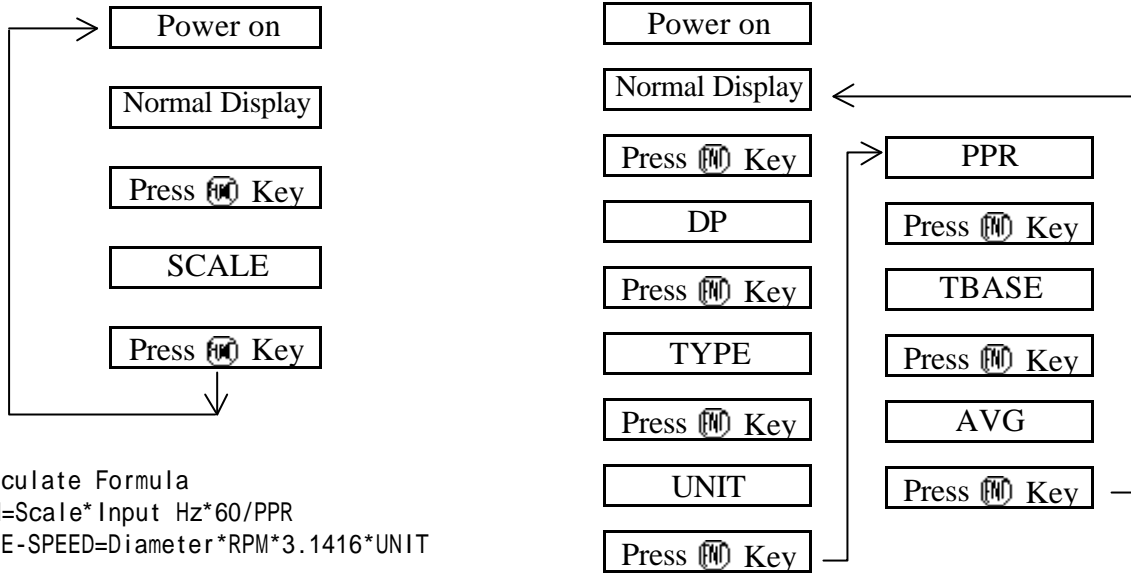
Sensor input(NPN 12V)



Easy operation manual

(Diameter or Scale operation manual)

(Parameter operation manual)



註: Calculate Formula

$$\text{RPM} = \text{Scale} * \text{Input Hz} * 60 / \text{PPR}$$

$$\text{LINE-SPEED} = \text{Diameter} * \text{RPM} * 3.1416 * \text{UNIT}$$

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1-1	Normal Display	12345	Press [F0] key about 3 sec into step 1-2 DP setting page
1-2	DP(Decimal Point setting page)Value on EEPROM reset=LSB	DP	1. Decide decimal point position with per digit [F0] key 2. Press [F0] key enter data and into TYPE setting page
		0	
1-3	TYPE(Input Type setting page)Value on EEPROM reset=RPM	TYPE	1. Decide input type with per digit [F0] key(RPM/LINE) 2. Press [F0] key enter data and into UNIT setting page
		r P n	
1-4	UNIT(LINE-SPEED Unit setting page)value on EEPROM reset=METER	U n . t	1. Decide unit with per digit [F0] key(METER/FOOT/YARD) 2. Press [F0] key enter data and into PPR setting page
		n E t E r	
1-5	PPR(Pulse Per Revolution setting page)Value on EEPROM reset=1	PP r	1. Decide pulse per revolution with per digit [F0] key(1~9999) 2. Press [F0] key enter data and into TBASE setting page
		0001	
1-6	TBASE (Input sampling Time Base setting page)Value on EEPROM reset=2.0	t b r s e	1. Decide input sampling time base with per digit [F0] key(0.1~99.9sec) 2. Press [F0] key enter data and into AVG setting page
		02.0	
1-7	AVG (Display Average times setting page)Value on EEPROM reset=2	A v t	1. Decide display average times with per digit [F0] key(1~99) 2. Press [F0] key enter data and return normal display *When average times increment, display response time add 100mS
		02	
Step	Parameter Mark Description	Parameter Mark	Operation Manual
2-1	Normal Display	12345	Press [F0] key, into SCALE setting page
2-2	SCALE (Display Scale setting page)Value on EEPROM reset=1	SCALE	1. Decide display scale with per digit [F0] key(0.0001~9.9999) 2. Press [F0] key enter data and return normal display
		1.0000	
Appendix	Error Mark Description	Error Mark	Analyze & Description
1	Input over error detect	. o F L	Input over range(max. rate 50KHZ)
2	Display over error detect	d o F L	Display over range(max. rate 99999)
3	EEPROM error detect	E - 00	1. External interference when EEPROM read/write
			2. EEPROM write over 100 million times(guarantee 10 years)