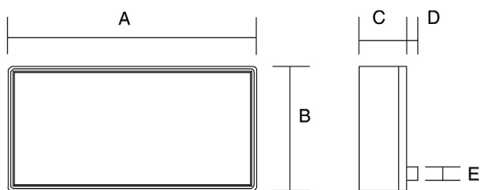


INSTRUCTION MANUAL FOR MV-D10 MICROPROCESSOR INDICATOR

KEYPAD DESCRIPTION

- (1) - SET KEY. On normal position(PV display), press once to access level 1.
Press once to access the next programmable parameter.
- (2) - SHIFT KEY.
- (3) - UP KEY. Press to increase the set point or parameter value.
- (4) - DOWN KEY. Press to decrease the set point or parameter value.
- (5) - Press the SET and SHIFT keys simultaneously for 5 seconds to access level 2.
- (6) - Press the SET and DOWN keys simultaneously for 5 seconds to reset all parameters to factory default setting when power on.
- (7) - On normal position(PV display), press the SET and DOWN keys simultaneously to hide/show the line parameters.

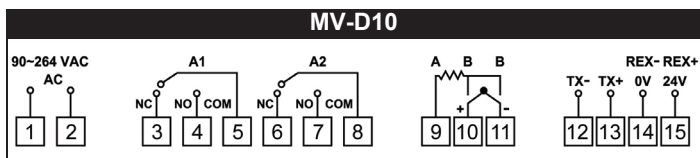
DIMENSION



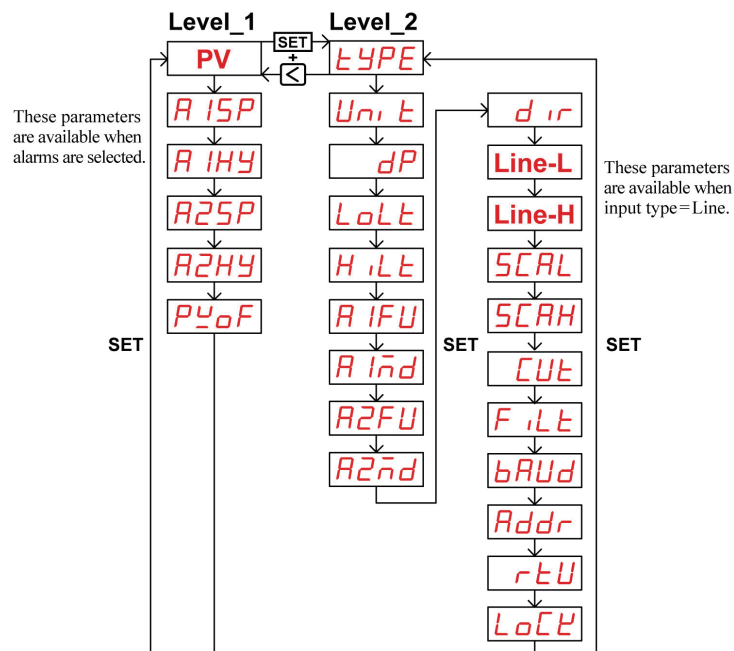
Model	A	B	C	D	E
MV-D10-13	374	150	61.2	13	14
MV-D10-14	464	150	61.2	13	14

(Unit:mm)

WIRING DIAGRAM



PARAMETERS FLOWCHART



PARAMETER DESCRIPTION

LEVEL 1

CODE	DESCRIPTION	RANGE	DEFAULT
<i>A1SP</i>	Alarm 1 set point value	3 digits : -199 - 999 4 digits : -1999 - 9999	0
<i>A1HY</i>	Hysteresis of alarm 1	3 digits : 0 - 999 4 digits : 0 - 9999	0
<i>A2SP</i>	Alarm 2 set point value	3 digits : -199 - 999 4 digits : -1999 - 9999	0
<i>A2HY</i>	Hysteresis of alarm 2	3 digits : 0 - 999 4 digits : 0 - 9999	0
<i>PVoF</i>	Process value offset. Permits the user to offset the PV indication from the actual PV	Full Scale $\pm 5\%$	0

LEVEL 2

CODE	DESCRIPTION	RANGE	DEFAULT		
<i>TYPE</i>	Input type selection :		Refer to figure	PT100	
	TYPE	RANGE (°C)			RANGE (°F)
	J	-50~1000			-58~1832
	K	-50~1370			-58~2498
	T	-270~400			-454~752
	E	-50~700			-58~1292
	B	0~1750			32~3182
	R	-50~1750			-58~3182
	S	-50~1750			-58~3182
	N	-50~1300			-58~2372
	C	-50~1800			-58~3272
	PT100	-200~600			-328~1112
	mV	-60.00mV ~ 60.00mV			
	Voltage	-10.000 ~ 10.000Vdc			
	Current	0.000 ~ 24.000mAdc			
RSP	Remote Set Point				
※ Internal DIP switch setting :					
	1	2	3	4	
TC	ON	OFF	OFF	ON	
PT	ON	OFF	OFF	OFF	
mA	ON	OFF	ON	OFF	
V	OFF	ON	OFF	OFF	

<i>Unit</i>	Unit of process value : °C : Degrees C °F : Degrees F Eng : Engineer unit for linear input	°C °F Eng	°C
<i>DP</i>	Decimal point selection. 0000 : No decimal point 000.0 : 0.1 resolution 00.00 : 0.01 resolution, used for linear input only 0.000 : 0.001 resolution, used for linear input only After change decimal point, please reconfirm the parameter.	0000 000.0 00.00 0.000	0000
<i>LoLt</i>	Low limit of measuring range	3 digits : -199 - 999 4 digits : -1999 - 9999	0
<i>HiLt</i>	High limit of measuring range	3 digits : -199 - 999 4 digits : -1999 - 9999	3 digits : 999 4 digits : 1000
<i>AlFU</i>	Alarm 1 function. oFF : Alarm action off Hi : Process high alarm Lo : Process low alarm	oFF Hi Lo	oFF
<i>Alnd</i>	Alarm 1 mode. Refer to alarm mode section for detail.	non St LA StL	non
<i>Al2FU</i>	Alarm 1 function. oFF : Alarm action off Hi : Process high alarm Lo : Process low alarm	oFF Hi Lo	oFF
<i>Al2nd</i>	Alarm 1 mode. Refer to alarm mode section for detail..	non St LA StL	non
<i>dir</i>	Defines the scalable analogue output signal to be 4 to 20mA or 20 to 4 mA..	4.20 20.4	4.20
<i>nVL</i>	Low Scale of mV Input	3 digits : -60.0~60.0 4 digits : -60.00~60.00	0
<i>nVH</i>	High Scale of mV Input	3 digits : -60.0~60.0 4 digits : -60.00~60.00	3 digits : 60.0 4 digits : 60.00
<i>VL</i>	Low Scale of Voltage Input	3 digits : -10.0~10.0 4 digits : -10.00~10.00	0

<i>VH</i>	High Scale of Voltage Input	3 digits : -10.0~10.0 4 digits : -10.00~10.00	3 digits : 60.0 4 digits : 60.00								
<i>nAL</i>	Low Scale of mA Input	3 digits : 0.0~24.0 4 digits : 0.00~24.00	3 digits : 4.0 4 digits : 4.00								
<i>nVH</i>	High Scale of mA Input	3 digits : 0.0~24.0 4 digits : 0.00~24.00	3 digits : 20.0 4 digits : 20.00								
<i>SCAL</i>	Low Scale of Linear Input	3 digits : -199 - 999 4 digits : -1999 - 9999	0								
<i>SCAH</i>	High Scale of Linear Input	3 digits : -199 - 999 4 digits : -1999 - 9999	3 digits : 999 4 digits : 1000								
<i>CUT</i>	Cut-off function The Cut-off function is used to limit the process value of linear input signal within the boundary whenever the input signal is out of the scale. The cut-off function can be set to "Low", "High" or "High/Low", set to "None" disable the cut-off function. The cut-off function has no effect for input signal other than linear type and is only showed when the input signal type is set to linear.	non Lo Hi HL	HL								
<i>FiLT</i>	Software filter	0~999	0								
<i>BAUD</i>	Communication baud rate. 2.4k=2400bps 4.8k=4800 bps 9.6k=9600 bps 19.2k=19200 bps	2.4k, 4.8k 9.6k, 19.2k	19.2k								
<i>Addr</i>	Address of controller when communication with master device.	1-255	1								
<i>rtu</i>	Modbus RTU protocol	n81 n82 o81 E82	n82								
<i>LoCK</i>	Parameter lock. This security feature locks out selected levels. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">001</td> <td>All parameters are locked out</td> </tr> <tr> <td style="text-align: center;">010</td> <td>Only LEVEL 1 is adjustable</td> </tr> <tr> <td style="text-align: center;">011</td> <td>Only LEVEL 2 is adjustable</td> </tr> <tr> <td style="text-align: center;">100</td> <td>LEVEL 1 & LEVEL 2 are adjustable</td> </tr> </table>	001	All parameters are locked out	010	Only LEVEL 1 is adjustable	011	Only LEVEL 2 is adjustable	100	LEVEL 1 & LEVEL 2 are adjustable	001 010 011 100	011
001	All parameters are locked out										
010	Only LEVEL 1 is adjustable										
011	Only LEVEL 2 is adjustable										
100	LEVEL 1 & LEVEL 2 are adjustable										

■ ALARM FUNCTION

A1FU / A2FU	ALARM TYPE	ALARM OUTPUT OPERATION
<i>oFF</i>	Alarm function off	
<i>H_i</i>	Process high alarm	
<i>L_o</i>	Process low alarm	

■ ALARM MODE

A1MD/A2MD	DESCRIPTION
<i>non</i>	Normal alarm mode
<i>St</i>	Standby mode When selected, in any alarm function, prevents an alarm on power on. The alarm is enabled only when the process value reach alarm set point. Also known as "Startup inhibit" and is useful for avoiding alarm trips during startup.
<i>LA</i>	Latch mode. When selected, the alarm output and indicator latch as the alarm occurs. The alarm output and indicator will be energized even if the alarm condition has been cleared unless the power is shut off.
<i>St.L</i>	Standby and latch mode