DC4-R	5 DIGITAL ME	MICRO-PROCESS RPM / LINE-SPEED FER with ALARM / ANALOG OUTPUT /	/FREQUENCY RS-485	MAN	IUAL	
* Please understand key indicators & functions at the first operation.						
	FRO	NT PANEL & KEY FUN	CTIONS			
Enter Key & Shift Key & Up Key Down Key						
Key Name	Symbol	Descrip	tions			
Enter Key & Save Key	ENT	<ol> <li>In the measuring status, press th</li> <li>In the parameter setting, press t</li> <li>next parameter.</li> </ol>	is key can enter his key can save	to param e the valu	eter pag e & go t	jes. O
Shift Key & Leaving Key	$\Diamond$	1. In the any status, press this key f 2. In the parameter setting , press t	or 1 sec can go b his key can mov	back the p ve the cur	orevious sor left.	page
Uр Кеу	$\bigcirc$	<ol> <li>In the parameter group, press this</li> <li>In the parameter setting , press</li> </ol>	s key can go on te this key can dec	o the nex crease the	t parame e digits.	eter.
Down Key	$\bigtriangledown$	<ol> <li>In the parameter group, press this</li> <li>In the parameter setting , press</li> </ol>	s key can go bacl this key can dec	k to the la crease the	ist parar e digits.	neter.
<ul> <li>**1. The following block charts are parameters codes, parameter codes &amp; parameters will alternate flashing if the parameters can be modified.</li> <li>2. To modify the parameters, please press &lt; , and press ENT to save the parameter after the modification.</li> <li>3. Please don't forget the new pass code after modification.</li> <li>4. In any pages, press &lt; , or don't press any keys for 2 minutes that will back to measuring status.</li> </ul>						
WIRING CONNECTION & ADJUSTMENT						
Relay output:     B C A     C A	B C A B C A B B B B B B 12 13 14 15 16	Analog output:     Upper     9 10 11 12 13 14 15 16	DIP SWITCH NPN CO PNP Contact C	1 2 DN 0N DN 0N	3 4	5 0N
Lower Lower Lower	4 5 6 7 8	● RS-485: Upper	DC 5Vp DC 12Vp DC 24Vp **D-S down is "ON"		ON ON	

GENERAL MODE OPERATING PROCEDURES			
Block Charts	Display	Descriptions	Default
Power ON		Max / Min Value & Alarm Setpoint	
<b>⊢→</b> _/ <u>//////</u>	Mea suring Status	Present value for measurement	
Press C for 1 sec	Min Value Display	$\operatorname{Press} \bigcirc \bigtriangledown$ to go on / go back to the next(last) parameter .	0000
	Max Value Display	Press $\triangle \bigtriangledown$ to go on / go back to the next(last) parameter.	0000
	Max / Min Reset Setting (M.rst)	Press ENT to enter the setting, and rese t the Max/Min value.	
	Alarm 1 Setpoint (rY1.SP)	Press ENT to enter the setting, and modify alarm 1 setpoint.	0000
	Alarm 2 Setpoint (rY2.SP)	Press ENT to enter the setting, and modify alarm 1 setpoint.	0000
	Alarm 1 Reset Setting (M.rst)	Press ENT to enter the setting, and rese t alarm.	0000
	Software Version Display	Press $ riangle \nabla$ to go on / go back to the next(last) parameter.	0000
emark: 1. There are 2 "Analog Ou 2. Press 1 to for modific: 3. Some of op	ation or saving the second sec	p (Ao)" & "RS485 Setting Group (rS485)" for modification p page, and press ENT to enter each group or parameter parameters. f parameter pages still exist, but the functions are disab	inp(IELAT) , on. r page le.
Rower On	Display	Descriptions	Default
		Parameter Group Setting Procedures	
1000.0	Mea suring Status	Present value for measurement	
	Pass Code (P.Cod)	Press <⊅☆ to enter pass code.	0000
NO P.Code Correct		Pass code is correct that will enter to parameter groups Pass code is wrong that will back to measuring status.	
Press <☐1 sec       Press <☐1 sec       F S 4B5       Press <☐1 sec         Press <☐1 sec			

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	Display	Descriptions	Default
	System Setting Page (inPUt)	System Setting Group Procedures	
	Input Type Setting (Pv.tYP)	Press ENT enter to the setting, and modify the input type. (RPM/Linear-Speed/Frequency)	Customers specify
	PPR Setting (PPr)	Press ENT to enter the setting, and modify ppr (1~9999).	000 1
	Line-Speed	Press ENT to enter the set ting, and modify the unit of line-speed .	Customers
E.Uni E	Unit Setting (E.Unit)	PS: Line-Speed type available	specify
d IRit	Diameter Setting (diAMt)	Press ENT to enter the setting, and modify the diameter setting.	0 1000
Press	Decimal Point Setting (dP)	Press ENT to enter the setting, and select decimal point (0, 1, 2, 3) EX: if the value shows "0.00" that means the decimal point is 2 digits.	Customers specify
Press ↔ ↓	Display Factor Setting (FACtr)	Press ENT to enter the setting, and modify display factor setting.	1000
Prose CV	Display Low Cut Setting (Lo.CUt)	Press ENT to enter the setting, and modify display low cut to 0 (0~99).	0005
	Pulse Time Out Type Setting (ito.md)	Press ENT to enter the setting, and modify pulse time out mode.	RULo
	Pulse Time Out Setting (ito)	Press ENT to enter the setting, and modify pulse time out setting.	0.0
	Display Average Setting (AvG)	Press ENT to enter the setting, and modify display average (1~99). PS: Please use this function for stable display value	0005
Press CR.	Digital Filter Setting (d.FiLt)	Press ENT to enter the setting, and modify down key setting.	0
Pross ⊕ ↓ P.CodE	Pass Code Setting (P.CodE)	Press EN I to enter the setting, and modify pass code (0~1999 9). PS: Please don't forget the new pass code after modification.	1000
Press	Alarm Sotting	Alarm Setting Group Procedures	
→ rELAY	Page (rELAY)	The following steps are only available for alarm output.	
ENT ¥	Alarm Start Band Setting (rY.Sb)	Press ENT to enter the setting, and modify the value (-99~+99), if the display value don't over this range; the alarm will not be act.	0000
rss	Alarm Start Band Time Setting (rY.Sd)	Press ENT to enter the setting, and modify the value (0~99 sec), if the display value reach alarm start band value; the alarm will be act after this value (sec).(The function is used with "Sb" function.)	0000
ress	Alarm 1 Action Setting (rY1.Md)	Press ENT to enter the setting, and modify alarm value that is ≧(Hi) or <(Lo) for alarm action.	H,
	Alarm 1Hysteresis Setting (rY1.HY)	Press ENT to enter the setting, and modify the value, when alarm runs lower or higher display value (depends on alarm action). Alarm setpoint± this range (0~9999) will turn off the alarm	0000
	Alarm 1 Delay Time Setting (rY1.rd)	Press ENT to enter the setting, and modify the value, when the display value each the alarm value that need to wait for this time (0~99 sec) for alarm action.	0000
гУ !Fd	Alarm 1 Return Time Setting (rY1.rd)	Press ENT to enter the settin g, and modify the value, when the display value reach the alarm value that need to wait for this time (0~99 sec) for alarm return.	0000
rydyd	Setting (rY2.Md)	Please refer to the above Alarm 1 group settin g procedure.	
	Setting (rY2.HY) Alarm 2 Delay Time	<b>3</b> • <b>4 7</b> • <b>1</b> • <b>1</b>	
	Setting (rY2.rd)		
	Alarm 2 Return Time Setting (rY2.rd)		

	Display	Descriptions	
		A/O Setting Group Procedures	
	A/O Setting Page (Ao)	The following steps are only available for analog output.	
Press ENT V Roll YP	A/O Polarity Setting (Ao.tYP)	Press ENT to enter the setting, and select output for positive or negative pole. PS : Voltage output ,NO: positive pole output (0~+10V) YES: positive & negative pole output (-10~+10V)	по
	A/O Low Scale Setting (Ao.LS)	Press ENT to enter the setting, and adjust A/O low scale to correspond to the display value (programmable). EX : A/O is 0~10V, the display is 10.0 to output 0V, this value must be set for 10.0	0000
Press Cro	A/O Hi Scale Setting (Ao.HS)	Press ENT to enter the setting, and adjust A/O hi scale to correspond to the display value (programmable). EX : A/O is 0~10V, the display is 90.0 to output1 0V, this value must be set for 90.0	9999
	A/O Zero Adjustment (Ao.Zro)	Pres s ENT to enter the setting, and adjust A/O zero adjustment	0000
RoSPn Press	A/O Span Adjustment (Ao.Spn)	Pres s ENT to enter the setting, and adjust A/O span adjustment	0000
	A/O Adjustment Reset Setting(Z.S.CLr)	Pres s ENT to enter the setting, and reset the A/O adjustment.	
		RS485 Setting Group Procedures	
	RS485 Setting Page (doP)	The following steps are only available for RS-485.	
Press	Address Setting (Addr)	Press ENT to enter the setting, and modify address (0~255).	1
	Baud Rate Setting (bAUd)	Press ENT to enter the setting, and select baud rate (38400/19200/9600/4800)	9600
	Parity Setting (PAri)	Press ENT to enter the setting, and select parity (n.8.2/n.8.1/even/odd).	n.5£b.2

Error Code of Self-Diagnosis				
Display	Descriptions	Remark		
ouFL	Input signal is over input range (+110%).	**Please check the wiring connection is correct first,		
- ouFL	Input signal is less than display range (Lo.SC).	if the problem still exist, please return the meter		
	Check the wiring.	to the factory.		
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