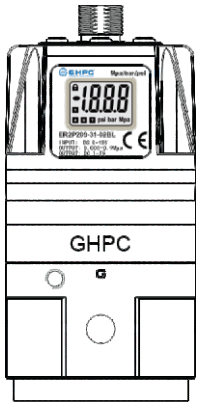


OPERATION MANUAL

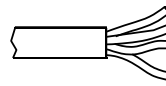
ER2P REGULATOR



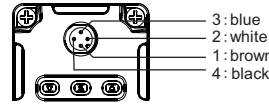
CONTENTS

- Safety instructions.....
- Wiring method.....
- Setting method.....
- Error indication function.....
- Technical specifications.....

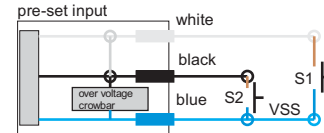
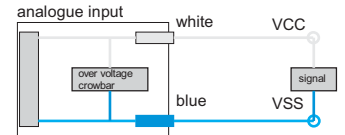
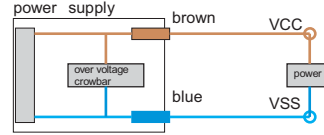
Wiring method



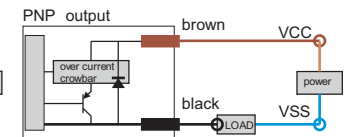
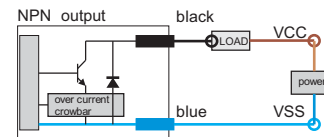
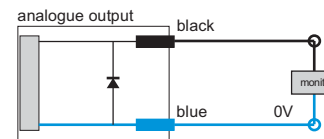
1: brown	VCC (POWER SUPPLY)
2: white	input signal
3: blue	VSS (COMMON)
4: black	output signal



Note: the wire color is when optional cable is used



Preset	P_1	P_2	P_3	P_4
S1	OFF	ON	OFF	ON
S2	OFF	OFF	ON	ON



Safety instructions



WARNING operator error could result in serious injury or loss of life

1. Whether this product is applicable should be determined by designer or senior person of air pressure system.
2. This product should be performed by knowledgeable and experienced operator, it is very dangerous to error operate compressed air.
3. Do not operate the equipment or remove the components until safety is confirmed, regular inspection should be taken to ensure the proper operation.

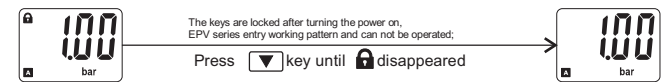


WARNING operator error could result in injury or equipment damage

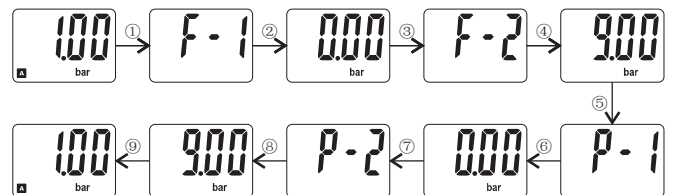
1. If power to this product is cut off due to power failure, etc. when it is in a controlled state, residual pressure will be retained temporarily.
2. The optional cable connector is a 4 wire type, when the monitor output (analogue output or switch output) is not being used, prevent it from touching the other wires as a malfunction could occur.
3. This product is adjusted for each specification at the time of shipment from the factory. Avoid careless disassembly or removal of parts, as this can lead to malfunction.
4. Take the following steps to avoid malfunction due to noise:
 - ① Install a line filter etc. to the AC power line to reduce/eliminate power supply noise.
 - ② Avoid malfunction due to noise by installing this product and its wiring away from strong electric fields, such as those of motors and power line.etc.
 - ③ Be sure to implement protective measures against load surge for induction loads (solenoid valves, relays, etc).
 - ④ Turn off the power supply before installing and removing the connector.
5. Please note that the right angled cable connector does not rotate and is limited to only one entry direction.

Setting method

Key to unlock

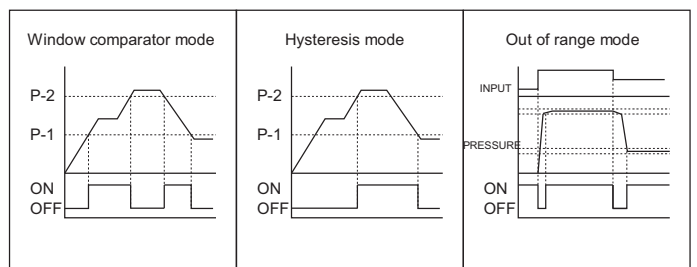


Analog input signal type setting of min. pressure, max. pressure

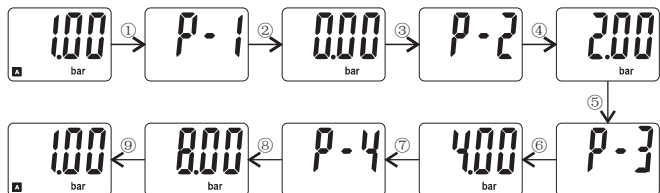


1. Unlock keys and press S key	2. Set the minimum pressure F-1 by using ▼▲ key
3. Press S key to save data	4. Set the maximum pressure F-2 by using ▼▲ key
5. Press S key to save data (P-1/P-2 only used in switch out products)	
6. Set the pressure P-1 by using ▼▲ key	7. Press S key to save data
8. Set the pressure P-2 by using ▼▲ key	9. Press S key to save data

- Note 1: F-1 is adjustable in a range from 0% to 90% of rated value.
 Note 2: F-2 is adjustable in a range from 10% to 100% of the rated value.
 Note 3: (F-2) - (F-1) ≥ 10% F.S.
 Note 4: P-1 < P-2, Window comparator mode.
 Note 5: P-1 ≥ P-2, Hysteresis mode.
 Note 6: P-1 = P-2 = 0, Out of range mode.

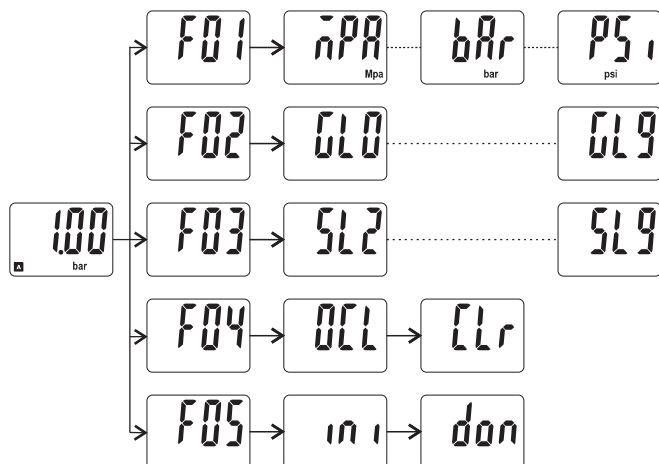


Setting of preset pressure



1. Unlock keys and press [S] key	2. Set the minimum pressure P-1 by using [▼] [▲] key
3. Press [S] key to save data	4. Set the maximum pressure P-2 by using [▼] [▲] key
5. Press [S] key to save data	6. Set the maximum pressure P-3 by using [▼] [▲] key
7. Press [S] key to save data	8. Set the maximum pressure P-4 by using [▼] [▲] key
9. Press [S] key to save data / return to pressure display	

Function setting



Unlock keys and press [S] key for 2 seconds to function setting
F01 Unit setting
Select F01, press [S] key, to unit setting.
Select Bar, Mpa, psi by using [▼] [▲] keys, and press [S] key to save data.
F02 response setting
Select F02, press [S] key, to response setting.
Select GL0+GL9 by using [▼] [▲] keys, and press [S] key to save data.
The gain is changed when sharp fluctuations in output pressure.
F03 error setting
Select F03, press [S] key, to error setting
Select SL2+GL9 by using [▼] [▲] keys, and press [S] key to save data.
The gain is changed when sharp fluctuations in output pressure.
F04 "Zero clear" setting
Select F04, press [S] key, to "Zero clear" setting
Press both [▼] [▲] keys until CLR displayed, the adjustable range is within 5% F.S.
Operate "zero clear" to correct the initial pressure
F05 Initialize settings
Select F05, press [S] key, to initialize settings
Press both [▼] [▲] keys until DON displayed, return to pressure display automatically.

Error indication function

NO.	display	Contents of error	countermeasure
1	E-1	Input signal exceeds the rated value range.	Reset input signal to within the rated range
2	E-2	Solenoid valve failure	Contact customer service for maintenance
3	E-3	Out of range error of zero clear	Error operate, recheck, please operate "zero clear" with in the range of 5% F.S..
4	E-4	Air line failure	Please check if first pressure is supplied and if EXH side and pilot exhaust are blocked;

Technical Specifications

Model	ER2P1	ER2P2	ER2P4
Min. pressure supply	Set Pressure: + 0.1Mpa		
Max. pressure supply	0. 2MPa	1. 0MPa	
Set pressure range	0,005 + 0,1 MPa	0,005 + 0,5 MPa	0,005 + 0,9 MPa
Power supply	Voltage	DC: 24V ± 10%	
	Current	DC24V: 0,12A MAX	
Input	Current type	DC 4+20mA, DC 0+20mA	
	Voltage type	DC 0+5V, DC 0+10V	
	Preset type	4 point	
Input resistance	Current type	below 250Ω	
	Voltage typ	approx. 6.5KΩ	
	Preset type	Preset input type 24VDC approx 4.7K Ω	
Output	Analog output	DC 1+5V (load impedance: over 1 KΩ) DC 4+20mA (load impedance: below 250Ω) Output precision within range the range of 6%F.S.	
	Switch output	NPN-OC output type: 30mA PNP-OC output type: 30mA	
Linear	± 1% F.S.		
Hysteresis	0.5% F.S.		
Repeatability	± 0.5% F.S.		
Temperature Characteristic	± 2% F.S.		
Display	Precision	± 2% F.S.	
	Division	1000 division	
Ambient temperature	0+50 °C		
Protection class	IP 65		

Reference data of response time

Series	Input signal 50%+100%		
	ER2P1	ER2P2	ER2P4
Without load	0,2 + 0,3 S	0,2 + 0,3 S	0,3 + 0,4 S
With load 1L	0,3 + 0,5 S	0,3 + 0,5 S	0,4 + 0,5 S