

## HA930 / 430 Series

### HA930/430 Series

The HA930/430 Series strain gauge input make it ideal for melt pressure control.

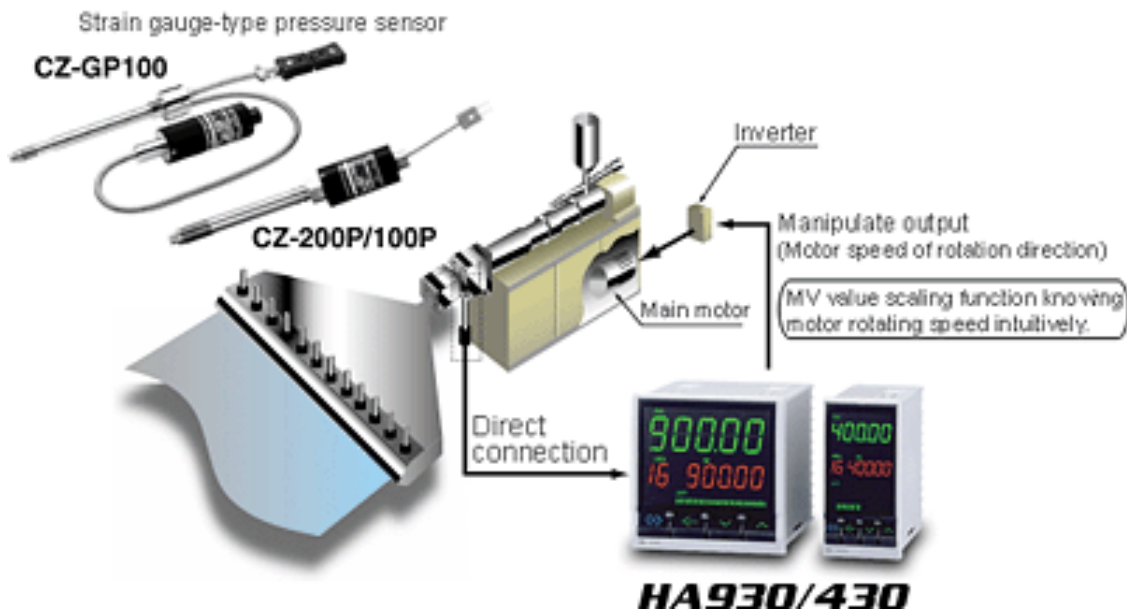
Featuring high speed sampling and control at 0.025 seconds (40Hz), PID parameters set in 1/100 unit, these controllers provide stable control for improved quality of extruded products.



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### Resin pressure control application

A strain gauge-type pressure sensor made in other companies is connectable.



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### Ultra high speed sampling 0.025 sec

The digital PID controller HA930, HA430 realizes 40 times of feedback control in one second and can respond to fast pressure control system of responsibility.

Of course we did not speed up only sampling period simply. It should support a high-speed response and, in a setting category of integral value (I) of a PID parameter and derivative (D), is as "0.0 to 3600.0 sec" or "0.00 to 360.00 sec".

# Sampling 0.025sec



## Pressure and Temperature control with a single instrument

The HA930 and HA430 provides dual loop control with a single instrument. The first loop is assigned to a strain gauge input and the second loop to a temperature input (T/C, RTD, and mV/V/mA).

1 ch



Strain gauge pressure sensor

2 ch



Temperature sensor



## 7 inputs and 5 outputs

A maximum of two measured inputs and five event inputs can be specified. A maximum of five outputs can be specified, and various output functions (control output, analog retransmission, event up to 4) can be allocated in output logic operation.

**CH1**

Pressure input

**CH2**

Temperature input  
or Voltage, Current  
input

**DI1 - DI5**

Area change  
Run / Stop  
Remote / Local  
Auto / Manual  
Hold / Reset  
Interlock reset  
Motor speed of  
rotation  
Up / Down  
Forced reset



Event output ;  
Deviation High, Low,  
High-Low  
Process High, Low  
Deviation Band  
Loop break alarm



**DO1**

Control output of CH1

**DO2**

Control output of CH2  
Event output 3, 4  
Analog retransmission  
output

**DO3**

Event output 2,3, 4  
Analog retransmission  
output

**DO4**

Event output 1, 2, 3

**DO5**

Event output 1, 2  
FAIL

**Communications**

Communication function can be selected from serial communication (RS-232C, RS-422A, RS-485) and Open network (DeviceNet, PROFIBUS).



MODBUS, RKC standard protocol  
(RS-232C/422A/485)



Open network  
(DeviceNet, PROFIBUS)



A communication port is a single. (Specify communication type when ordering.)