

W-Series Quick Start Manual

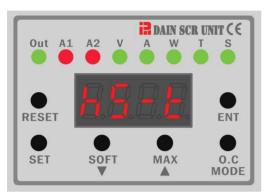
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88023126562 IPM-SCE

DAIN INSTRUMENT

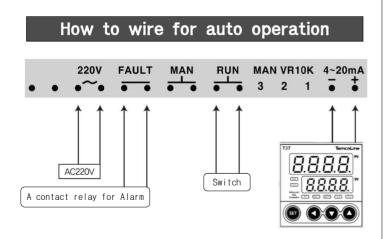
48, Banyawol-ro, 16-gil, Dong-gu, Daegu, Korea

W-Series Display Function



You can check current state by the display window. When push the Up key(Down key), below word will be shown in order(in opposite direction).

You can see output range (00.00~99.99%), If push the MODE key during operation. (In this case, 'S' LED is turned on)



The most important is quality

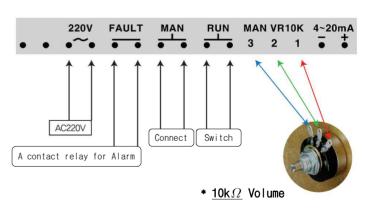
DANGER Do not operating under the state of no load. Thyristor(SCR) has the property of occurring short circuit when it was error. So It is impossible to control the SCR. That case, if there aren't extra safety devices It can cause the fire and damaging heater .Therefore you need some extra safety devices.

Display when alarmed

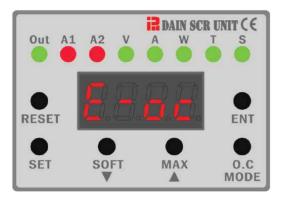
When alarmed, please push the ENT key to check the state (In case of multiple alarm, push ENT key again to see next state)

88.88	Heat sink over temp alarm 1 ('A1' LED is on) (In normal operation)
	R-Phase open R-Phase Fuse blown ('A1' LED is on) S-Phase open S-Phase Fuse blown ('A1' LED is on) T-Phase open T-Phase Fuse blown ('A1' LED is on)
8.8.8.	Heat sink over temp alarm 2 ('A2' LED is on) (In stop operation)
8.8.8.8	Over-Current alarm ('A2' LED is on) (RESET required for re-operation)

How to wire for manual operation

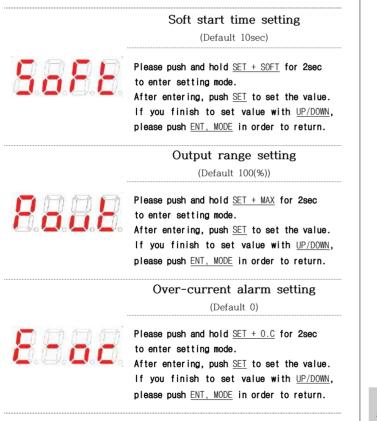


How to set value



Value can be set only at RUN OFF state, so please be aware of it. But you can check the value set anytime.

(*Setting and checking the value can not be processed while 'S' LED is turned on. So please check if 'S' LED is off)

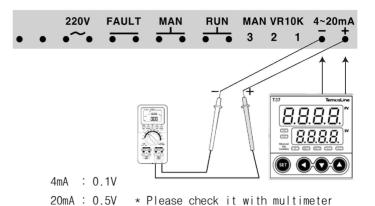


Spec

- Phase / Zero-crossing control
- Output Current / Voltage limit
- Over current / temp detection
- Unbalanced / Open-circuit load detection
- SCR short detection
- Phase open / Fuse blown detection
- RS485 MODBUS Communication

Status : 19,200BPS, Data 8 Bit, 1 Stop Bit, None Parity Register info : [Please refer on our homepage]

How to check 4~20mA input signal



Calculation formula of IPM capacity

1-Phase Resistive load = $\frac{Heater(W)}{Voltage}$ *1.3

1-Phase Trans load = $\frac{Heater(W)}{Voltage}$ *2

3-Phase Resistive load = $\frac{Heater(W)}{\sqrt{3} * Voltage} * 1.3$

3-Phase Trans load = $\frac{Heater(W)}{\sqrt{3}*Voltage}*2$

NOTE!

Before using the machine, please be aware of the details about safety in the manual to prevent hazards or accidents. Please install additional protective equipment when using facility that can cause significant damage or risk due to failure of the machine.



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