OTAZ

INDUSTRIAL AUTOMATION EQUIPMENT PRODUCTION
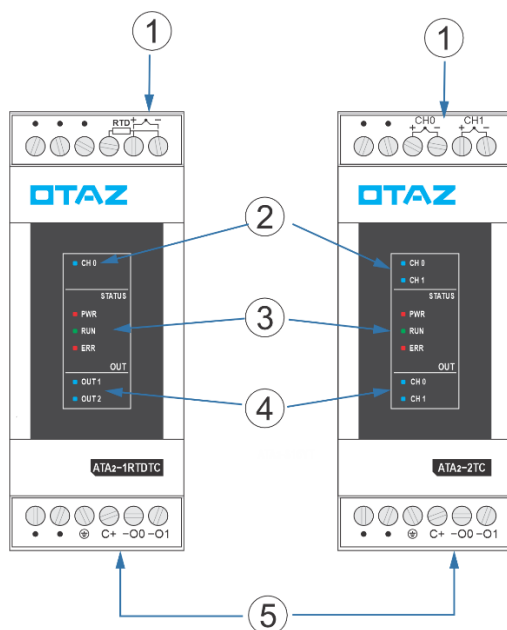
Temperature Control Module (TC)

ATA$_2$ PLC provides two kinds of temperature modules to meet great temperature measurement applications. One kind of these modules is directly interfacing with the thermocouple, and the others are interfacing with the RTD sensor.

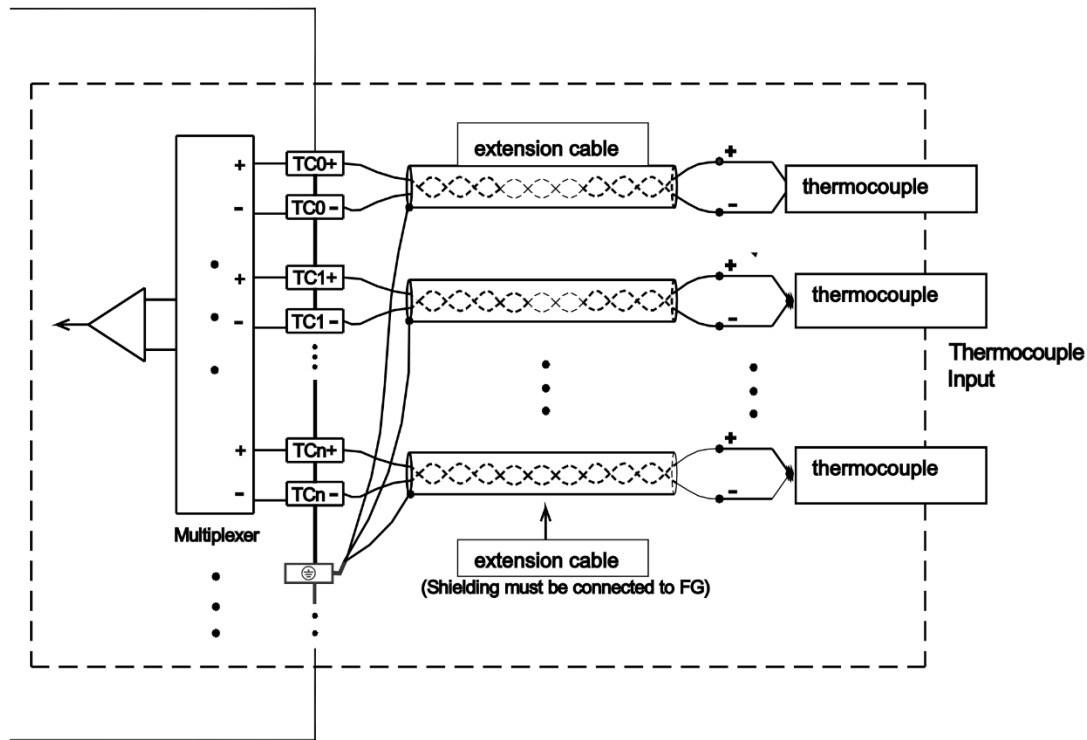| Model			Technical data				
			Number of input	Sensor type	Output occupied	Resolution	Isolation
expansion module	expansion TC_ATA$_2$ series	2TC	2	Thermocouple: J K R S E B N Platinum RTD: PT100 PT1000 JPT100	2 (Transistor)	0.1C	Transformer(Power) and photocouple(Signal) isolation (per-channel isolation)
		1RTD TC	1				

Table 8-1

Structural of TC module:

① RTD/TC(RTD TC) , TC(2TC) terminals
② Indicator status LED of Channel (0,1)
③ Indicator for system status (POW, RUN, ERR).
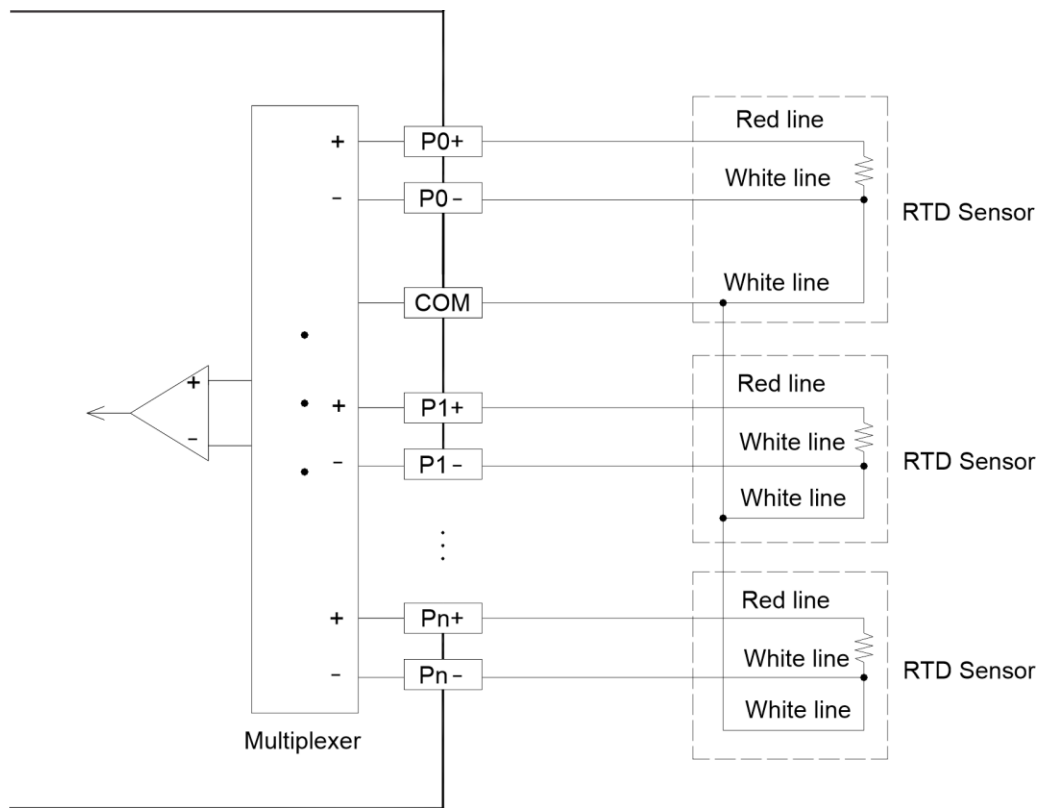④ Indicator status LEDs of Outputs
⑤ Digital output terminals

2TC Wiring:

Thermocouple type
and temperature
measurement range

J(− 200 ~ 900°C)
E(−1 90 ~ 1000 °C)
K(−1 90 ~ 1300°C)
T(−1 90 ~ 380°C)
R(0 ~ 1800°C)
B(35 0 ~ 1800°C)
S(0 ~ 1700°C)
N(−200 ~ 1000°C)

1RTD TC Wiring:

Multiplexer			RTD Sensor

RTD type and temperature measurement range

3-wire RTD sensor
JIS(α=0.00392) or DIN(α=0.00385)
Pt-100(−200 ~ 850°C)
Pt-1000(−200 ~ 600°C)

Mount by screws