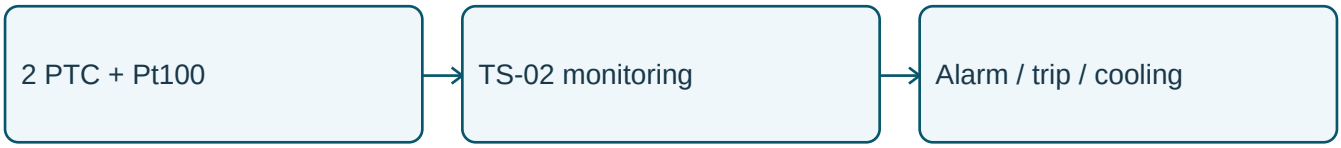
TS-02

01 / System identity and preparation

JOPPICH TS-02 monitors resistance sensors and operates the assigned alarm, trip and cooling relay circuits.



Preparation priorities

Temperature chain	Monitors resistance sensors and operates the assigned alarm, trip and cooling relay circuits.
Sensor wiring	Preserve the two PTC circuits and three-wire Pt100 connection. Check sensor continuity and the designated terminal assignments before applying power.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

TS-02 combines two PTC protection channels and one Pt100 control channel. Sensor wiring and external alarm, trip or cooling circuits must match the actual installation.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Temperature chain	Monitors resistance sensors and operates the assigned alarm, trip and cooling relay circuits.
Sensor wiring	Preserve the two PTC circuits and three-wire Pt100 connection. Check sensor continuity and the designated terminal assignments before applying power.
Threshold configuration	Record the Pt100 setpoint, hysteresis and external relay functions. Validate the alarm, protective action and cooling response independently.
Functional acceptance	Confirm the display, channel fault indications and all required external relay responses before release.

Match the sensor types

Keep the two PTC inputs separate from the three-wire Pt100 input. Do not connect an arbitrary analog transmitter to a resistance-sensor channel.

Verify the supply

Compare the applied AC or DC voltage with the TS-02 supply range and terminal arrangement before energization.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

03 / Hardware and interface checks

Check contact loading

Observe voltage, current and AC/DC switching-power limits together. Relay contact capability does not determine the rating of a connected motor or contactor.

Set the Pt100 threshold

Choose an application-approved setpoint from 20 to 200 °C and account for the 20 °C reset difference. Save the setting with SET.

Key hardware references

DC supply	24 to 270 V DC, ±10%
AC supply	40 to 270 V AC, ±10%; 50 to 60 Hz
Pt100 setpoint range	20 to 200 °C
Factory Pt100 setpoint	80 °C

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

04 / Commissioning and diagnostic decisions

Review sensor diagnostics

Investigate open-circuit or short-circuit indications and verify sensor wiring before returning the protection circuit to service.

Test the protection chain

Check temperature stages, relay functions and the external alarm/trip or cooling response using the approved commissioning method.

Acceptance checkpoints

Before energization	Preserve the two PTC circuits and three-wire Pt100 connection. Check sensor continuity and the designated terminal assignments before applying power.
Configuration review	Record the Pt100 setpoint, hysteresis and external relay functions. Validate the alarm, protective action and cooling response independently.
Functional release	Confirm the display, channel fault indications and all required external relay responses before release.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

05 / Service record and technical references

Lifecycle and support

The current manufacturing and service-support phase for TS-02 has not been confirmed. Obtain current manufacturer guidance for the complete identification and installed configuration.

Technical basis

Joppich TS-02 Temperaturüberwachung technical and operating instructions.

Applicability

TS-02 combines two PTC protection channels and one Pt100 control channel. Sensor wiring and external alarm, trip or cooling circuits must match the actual installation.

Related portfolio references

Honeywell 2MLF-RD8A

Allen-Bradley 1756-IRT8I

Siemens 6ES7431-7KF00-6AA0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.