TECHNICAL REFERENCE / EXACT-MODEL DOSSIER

WESTINGHOUSE 5X00622G01

RTD Input Module

WESTINGHOUSE 5X00622G01 is a sixteen-channel Ovation electronics module for three-wire RTD resistance inputs.

IDENTITY AND FUNCTION SNAPSHOT

H1 Sixteen RTD channels	**H2** Three-wire sensor inputs
H3 14-bit resistance output	**H4** No personality module required

Installed-system position

1	Three-wire RTD
2	5X00622G01 resistance conversion
3	Ovation I/O communication
4	Controller scaling and alarms

Exact-model release boundary

Identity Keep WESTINGHOUSE 5X00622G01 complete in drawings, labels and acceptance records.	**Evidence** Use only the exact-model and explicitly applicable family facts documented here.
Configuration Record cables, jumpers, settings and the installed functional position before work.	**Acceptance** Prove the affected control path before returning the equipment to service.

02 / SYSTEM ROLE AND INTERFACES

Architecture, interfaces and service boundaries

In temperature-monitoring service, WESTINGHOUSE 5X00622G01 provides channel conversion, open-wire diagnostics and front-panel status indication. Sensor type, three-wire balance and controller scaling must be restored channel by channel.

CONTROL PATH

1	Three-wire RTD
2	5X00622G01 resistance conversion

3	Ovation I/O communication
4	Controller scaling and alarms

Interface architecture

Sensor boundary	Sixteen three-wire RTD circuits
Conversion boundary	Resistance converted to a 14-bit digital value
Diagnostic boundary	Open-wire, overrange and channel communication checks
Controller boundary	Ovation scaling converts resistance to engineering units

Interface acceptance checks

1

Isolate or simulate affected RTD loops before handling WESTINGHOUSE 5X00622G01.

2

Confirm the complete G01 identity and all sixteen configured point assignments.

3

Record sensor type, three-wire terminals, engineering units and alarm limits for each channel.

4

Keep the three conductors for each RTD together and preserve the original lead pairing.

Engineering rule

A nearby WESTINGHOUSE family code does not establish interchangeability with 5X00622G01; use the physical nameplate and controlled site records.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Sensor boundary: Sixteen three-wire RTD circuits
- Conversion boundary: Resistance converted to a 14-bit digital value
- Diagnostic boundary: Open-wire, overrange and channel communication checks
- Controller boundary: Ovation scaling converts resistance to engineering units

03 / VERIFIED TECHNICAL DATA

Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable WESTINGHOUSE family source.

Product type	RTD input electronics module
Channel count	16
Sensor wiring	Three-wire RTD
Digital output	14-bit linear resistance value
Personality module	Not required
Diagnostic LEDs	Power, communication, internal error and channels 1-16
Channel diagnostics	Overrange, channel communication failure or open wire
Part number	5X00622G01

CHANGE CONTROL

Record Capture the full model, revision, slot, connectors and as-found condition.	**Compare** Match every populated technical row to the replacement and project record.
Protect Apply controlled isolation, stored-energy and ESD practices.	**Prove** Complete the product-specific functional and safe-state checks.

Source applicability

Evidence record	Applicable scope
Ovation Maintaining Your System OW360_R1007, 16-channel RTD input module section	Supports only the exact-model or explicitly applicable family facts used in this document.

04 / SERVICE LOGIC AND ACCEPTANCE

Fault isolation and controlled return

1	Capture the fault, indicators and surrounding-system state
2	Verify exact identity, power boundary, cabling and installed position
3	Test WESTINGHOUSE 5X00622G01 against the approved service procedure

4	Correct the isolated cause and restore the recorded configuration
5	Commission the affected path and archive measured evidence

Eight product-specific precautions

1 Isolate or simulate affected RTD loops before handling WESTINGHOUSE 5X00622G01.	**2** Confirm the complete G01 identity and all sixteen configured point assignments.
3 Record sensor type, three-wire terminals, engineering units and alarm limits for each channel.	**4** Keep the three conductors for each RTD together and preserve the original lead pairing.
5 Do not install a personality module in the 5X00622G01 configuration.	**6** Inspect P, C, I and channel LED indications during startup.
7 Use traceable resistance values to verify conversion and controller scaling.	**8** Release the module only after open-wire, overrange and all used-channel checks pass.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
How many RTD channels are provided by WESTINGHOUSE 5X00622G01?	It provides sixteen RTD input channels.
Which sensor wiring arrangement applies to WESTINGHOUSE 5X00622G01?	The module is configured for three-wire RTD inputs.
What digital format is produced by WESTINGHOUSE 5X00622G01?	It converts measured resistance to a 14-bit linear digital value.
Does WESTINGHOUSE 5X00622G01 require a personality module?	No. The valid module combination lists no separate personality module.
What does the P LED indicate on WESTINGHOUSE 5X00622G01?	The green P LED indicates that the module's +5 V power is satisfactory.
What does the C LED show on WESTINGHOUSE 5X00622G01?	The green C LED indicates communication between the module and the Ovation controller.
Which faults can light a channel LED on WESTINGHOUSE 5X00622G01?	A channel error can indicate overrange, failed channel communication or an open RTD wire.
How should WESTINGHOUSE 5X00622G01 be commissioned?	Inject traceable resistance values on every used channel and verify wiring, 14-bit conversion, engineering scaling and diagnostics.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 1P00028G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00106G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00119G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 5X00622G01 RTD Input Module Verify the complete nameplate before installation.

MODEL-SPECIFIC ACCEPTANCE MAP

1. Three-wire RTD
2. 5X00622G01 resistance conversion
3. Ovation I/O communication
4. Controller scaling and alarms

VERIFIED DATA

- Product type: RTD input electronics module
- Channel count: 16
- Sensor wiring: Three-wire RTD
- Digital output: 14-bit linear resistance value
- Personality module: Not required
- Diagnostic LEDs: Power, communication, internal error and channels 1-16

INTERFACE CHECKS

- Sensor boundary: Sixteen three-wire RTD circuits
- Conversion boundary: Resistance converted to a 14-bit digital value
- Diagnostic boundary: Open-wire, overrange and channel communication checks
- Controller boundary: Ovation scaling converts resistance to engineering units

RELEASE CHECKLIST

1. Isolate or simulate affected RTD loops before handling WESTINGHOUSE 5X00622G01.
2. Confirm the complete G01 identity and all sixteen configured point assignments.
3. Record sensor type, three-wire terminals, engineering units and alarm limits for each channel.
4. Keep the three conductors for each RTD together and preserve the original lead pairing.
5. Do not install a personality module in the 5X00622G01 configuration.
6. Inspect P, C, I and channel LED indications during startup.
7. Use traceable resistance values to verify conversion and controller scaling.
8. Release the module only after open-wire, overrange and all used-channel checks pass.