# X20AT6402

## Six-channel thermocouple input module

CONTROLLED ENGINEERING COPY

Record thermocouple type and polarity for every channel, maintain compatible extension wire and verify cold-junction compensation before acceptance.

| INSTALLATION IDENTITY | REQUIRED VALUE |
|---|---|
| **Complete model** | X20AT6402 |
| **Manufacturer part** | X20AT6402 |
| **Hardware type** | 6 |
| **System family** | B&R X20 temperature measurement |

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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# 01 PRE-INSTALLATION PLAN

1. Verify the full X20AT6402 marking and its assigned B&R X20 temperature measurement position before work.
2. Place the connected machine or process in the approved maintenance state.
3. Isolate the applicable supply and six low-level thermocouple temperature signals field energy before disconnecting conductors.
4. Record connector, conductor, address and software identities before removal.
5. Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

## MATCHED HARDWARE

- X20 bus module and terminal block
- matching thermocouples
- shielded extension wiring
- Automation Studio temperature configuration

## INSTALLATION CONTROL RECORD

| CONTROL ITEM | REQUIRED RECORD |
|---|---|
| **Identity** | X20AT6402 / X20AT6402 recorded |
| **Physical interface** | X20 bus module and terminal block |
| **Companion check** | matching thermocouples |
| **Functional proof** | Acquires six thermocouple inputs |
| **Application test** | Furnace-zone measurement |

# 02 WIRING & INTERFACE CHECKS

| CHECK ITEM | REQUIRED VALUE |
|---|---|
| **Inputs** | 6 |
| **Thermocouples** | J; K; N; S; B; R |
| **Terminal compensation** | Integrated |
| **Filtering** | Configurable input filter |
| **Resolution** | Configurable |
| **Isolation** | I/O isolated from bus; channels not isolated from each other |
| **Protection** | IP20 |

## SYSTEM CONNECTION RECORD

| CONNECTION ITEM | DOCUMENTED ASSIGNMENT |
|---|---|
| **Installed host / carrier** | X20 bus module and terminal block |
| **Companion hardware** | matching thermocouples |
| **Field connection** | shielded extension wiring |
| **Primary system function** | Acquires six thermocouple inputs |
| **Controlled acceptance duty** | Furnace-zone measurement |

### FIELD NOTE

Record thermocouple type and polarity for every channel, maintain compatible extension wire and verify cold-junction compensation before acceptance.

# 03 COMMISSIONING WORKFLOW

1. Confirm X20AT6402 and part number X20AT6402 against the installed record.
2. Verify the physical connection to X20 bus module and terminal block.
3. Apply the documented technical values for inputs.
4. Exercise the function: acquires six thermocouple inputs.
5. Run a controlled test for furnace-zone measurement.
6. Record the final state, diagnostics and operator acceptance before release.

## COMMISSIONING ACCEPTANCE EVIDENCE

| EVIDENCE ITEM | ACCEPTANCE CONDITION |
|---|---|
| **Identity** | X20AT6402 / X20AT6402 recorded |
| **Physical interface** | X20 bus module and terminal block |
| **Companion check** | matching thermocouples |
| **Functional proof** | Acquires six thermocouple inputs |
| **Application test** | Furnace-zone measurement |

# 04 RETURN-TO-SERVICE RECORD

- [ ] Confirm the installed X20 bus module and terminal block and matching thermocouples against the approved project.
- [ ] Restore power in a controlled sequence and review device, network and host diagnostics.
- [ ] Prove the intended furnace-zone measurement function and retain the final test result.
- [ ] Confirm the intended process response before normal operation.

## VERIFICATION RECORD

| | |
|---|---|
| **PRODUCT IDENTITY** | X20AT6402 |
| **INSTALLED POSITION** | Documented B&R X20 temperature measurement position |
| **VERIFICATION METHOD** | Controlled inspection and functional test |
| **RELEASE RECORD** | Final diagnostic state retained before service |

## RELATED PRODUCTS ON APTER POWER

| MODEL | SYSTEM ROLE | APTER POWER PAGE |
|---|---|---|
| **1794-OB8EP** | Related industrial automation product | View 1794-OB8EP page |
| **1785-PFB** | Related industrial automation product | View 1785-PFB page |
| **1756-L62S** | Related industrial automation product | View 1756-L62S page |
| **1785-ME32** | Related industrial automation product | View 1785-ME32 page |
| **1756-L63** | Related industrial automation product | View 1756-L63 page |
| **1757-BEM** | Related industrial automation product | View 1757-BEM page |
| **1756-L1M2** | Related industrial automation product | View 1756-L1M2 page |
| **1756-L61S** | Related industrial automation product | View 1756-L61S page |

## SOURCE IDENTIFIERS

B&R official product data sheet

B&R product data


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