

SC-UCMX02

ControlEdge RTU Controller

Honeywell SC-UCMX02 is a nonredundant ControlEdge RTU controller with 28 mixed onboard I/O channels and communications for remote process automation.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

ControlEdge RTU

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PRODUCT OVERVIEW

Honeywell SC-UCMX02 is a nonredundant ControlEdge RTU controller with 28 mixed onboard I/O channels and communications for remote process automation.

1

Executes ControlEdge RTU logic

2

Provides twenty-eight mixed onboard I/O points

3

Hosts RTU communications and protocols

4

Expands to external I/O modules

SYSTEM COMPONENTS

ControlEdge RTU backplane

24 Vdc power supply

Expansion I/O modules

RTU communications network

TECHNICAL DATA

PARAMETER	VALUE
Controller configuration	Nonredundant
Onboard I/O	28 mixed channels
DRAM	256 MB
Rated supply	24 Vdc +/-25%
Input range	18 to 30 Vdc

PARAMETER	VALUE
Supply ripple	120 mVpp maximum
Input current	1.2 A maximum at 30 Vdc with 9 I/O modules
Power without expansion	1.7 to 2.9 W
Power with expansion	3.4 W

TECHNICAL NOTE

Verify the 18-30 Vdc supply, onboard I/O allocation and expansion-bus configuration before downloading the RTU application.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Remote wellhead automation

Executes ControlEdge RTU logic

Pipeline block-valve stations

Provides twenty-eight mixed onboard I/O points

Tank battery monitoring

Hosts RTU communications and protocols

Utility remote telemetry

Expands to external I/O modules

PRODUCT PRECAUTIONS

- 1 Verify the complete SC-UCMX02 marking and its assigned ControlEdge RTU position before work.
- 2 Isolate the applicable power and field energy before disconnecting SC-UCMX02.
- 3 Protect SC-UCMX02 connectors and electronic assemblies with approved ESD controls.
- 4 Record the installed wiring, channel assignment and configuration before replacement.
- 5 Match ControlEdge RTU backplane and 24 Vdc power supply to the documented system arrangement.
- 6 Commission SC-UCMX02 with controlled status, signal and diagnostic checks.
- 7 Retain the final remote wellhead automation functional-test result in the maintenance record.

ENGINEER FAQ

Q1 Does SC-UCMX02 match ControlEdge RTU backplane in a Remote wellhead automation installation?

Verify the complete SC-UCMX02 marking, the documented ControlEdge RTU position and the installed ControlEdge RTU backplane before fitting the assembly.

Q2 How should SC-UCMX02 be wired when it must executes controledge rtu logic?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for SC-UCMX02; then continuity-test the affected path.

Q3 Which ControlEdge RTU records should be captured before removing SC-UCMX02?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with SC-UCMX02 before disconnection.

Q4 What controlled test confirms that SC-UCMX02 can provides twenty-eight mixed onboard i/o points?

Apply the approved field or simulated stimulus, observe the ControlEdge RTU indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 24 Vdc power supply condition should be checked when SC-UCMX02 reports an abnormal state?

Check the 24 Vdc power supply supply, seating and connection first, then compare channel diagnostics with the recorded SC-UCMX02 baseline.

Q6 Can SC-UCMX02 be moved directly into Pipeline block-valve stations without validating RTU communications network?

No. Confirm the RTU communications network, revision, connection scheme and ControlEdge RTU configuration before transferring SC-UCMX02 to that duty.

Q7 What maintenance evidence is required after SC-UCMX02 is used for Tank battery monitoring?

Retain the nameplate record, corrective action, final diagnostics and a controlled tank battery monitoring functional-test result for SC-UCMX02.

Q8 How should SC-UCMX02 be returned to service in Utility remote telemetry?

Restore power under control, verify hosts rtu communications and protocols, exercise the intended signal path and release SC-UCMX02 only after the ControlEdge RTU remains in its approved operating state.

SOURCE Honeywell ControlEdge RTU Specifications | CE03-100 R174

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