POWER MEASUREMENT 3720-ACM

Installation & Commissioning Guide

01 Job scope and safe-work boundary

Installation or exchange of a 3720 ACM meter in a configured electrical monitoring circuit.

Offered reference	POWER MEASUREMENT 3720-ACM
Installed platform	3720 ACM power-monitoring platform
Work purpose	Identify, fit, configure and verify the complete offered item
Evidence basis	Power Measurement 3720 ACM Installation and Operation Manual, MRP 70000-0004

Before isolation

Identify	Acceptance before work
Rear label	Identify the basic or P24/48 supply execution before choosing the supply feed.
CT/PT record	Copy current and voltage transformer ratios from the installed configuration.
Wiring mode	Record the monitored circuit topology and voltage/current terminal assignments.

02 Pre-installation readiness

Check	Decision criterion
Communications	Inspect the fitted ISOCOM, MPCC or MPE option and its existing settings.
Setpoints and logs	Record enabled setpoints, demand periods and waveform or harmonic functions.
Isolation boundary	Plan safe isolation for voltage, current-transformer and control-supply circuits.

System interface record

Power-quality functions	Harmonic analysis and waveform capture/recording
Setpoint functions	High-speed and standard setpoints
Field setup	Front-panel programming and diagnostic display
Basic supply design	100-240 V AC or 110-300 V DC; verify rear label

Go / no-go decision

3720 ACM platform capabilities are documented; supply, communications and voltage-input options require the actual rear-label and fitted-card identification.

03 Installation or replacement sequence

Stage	Field action	Hold point
01 Capture	Save the rear-label identity and existing programming values.	Separate fitted options from platform capabilities.
02 Isolate	Apply the site isolation procedure to the meter and measurement circuits.	Treat CT circuits under the site-approved method.
03 Connect	Wire voltage, current and supply terminals to the selected configuration.	Confirm terminal assignment against the 3720 ACM manual.
04 Program	Set wiring mode, CT/PT ratios, demand and needed setpoints at the front panel.	Compare entered values with the saved configuration.
05 Integrate	Restore only the ports and protocol settings of the installed communication card.	Do not assume an Ethernet or serial option.
06 Prove	Compare meter values and alarms with known circuit conditions.	Record any discrepancy before release.

04 Commissioning and acceptance

Test	Acceptable observation	If not
Supply	The powered meter matches the input range on its rear label.	Remove power and recheck the supply execution.
Scaling	Voltage and current readings follow the recorded CT/PT ratios.	Recheck ratios, wiring mode and transformer polarity.
Power and energy	Derived power, energy and demand values are plausible for the circuit.	Review measurement wiring and configuration.
Communications	Only the fitted interface exchanges the expected data.	Check card, address, protocol and firmware.
Alarms	Configured setpoints respond to the selected test condition.	Review threshold, delay and output assignment.

Record the completed configuration

Keep the complete offered marking, installed system identity, settings and observed checks with the maintenance record.

Discuss the complete reference

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05 Fault response and handover

Observation	Review path
Incorrect displayed scale	Revisit CT/PT ratio entries and the selected wiring mode.
Missing communication	Inspect the fitted card and its serial or Ethernet settings.
Unexpected alarm state	Compare live value with setpoint threshold and delay.
No power	Check the rear-label supply option before testing the feed.

Handover boundary

Confirm the meter, communication card, terminal accessories and firmware in the quotation.

Related catalog references

Portfolio navigation only. Verify every proposed configuration separately.

- **General Electric UR8MH**
- **Siemens 6ES7331-7KF02-0AB0**
- **Honeywell TC-IAH161**