Siemens TI-405-8ADC
Complete Product Information

PRODUCT OVERVIEW

Product	TI-405-8ADC
Type	8-Channel Analog Input Module
Platform	SIMATIC TI 405
Primary role	eight-channel analog input module

KEY CAPABILITIES

Capability 1 Provides the eight-channel analog input module function.	Capability 2 Integrates with the SIMATIC TI 405 platform.
Capability 3 Retains the assigned signal or communication path.	Capability 4 Uses the complete TI-405-8ADC identity for replacement control.

WHERE IT FITS

Installed-base maintenance Restore the assigned eight-channel analog input module position without changing the surrounding system design.	Loop and channel service Retain terminal assignments, scaling and channel ownership during controlled replacement.
Fault isolation Separate module, field wiring and configuration causes during troubleshooting.	Commissioning Prove the complete signal path before returning the process to service.

ApterPower product support
Scan for model-specific assistance.

Capabilities at a glance

PRODUCT PARAMETERS

Alternate identifier	405-8ADC
Input channels	8
Resolution	12 bit
Current ranges	0 to 20 mA; 4 to 20 mA
Voltage ranges	0 to 5 V; 1 to 5 V; 0 to 10 V; ±5 V; ±10 V
User supply	24 V DC
Configuration basis	Preserve assigned settings
Acceptance focus	Confirm end-to-end response

CAPABILITY INTERPRETATION

Capability 1	Provides the eight-channel analog input module function. This supports the assigned SIMATIC TI 405 maintenance strategy.
Capability 2	Integrates with the SIMATIC TI 405 platform. This supports the assigned SIMATIC TI 405 maintenance strategy.
Capability 3	Retains the assigned signal or communication path. This supports the assigned SIMATIC TI 405 maintenance strategy.
Capability 4	Uses the complete TI-405-8ADC identity for replacement control. This supports the assigned SIMATIC TI 405 maintenance strategy.

SYSTEM RELATIONSHIP

Upstream Field source or system command assigned to the eight-channel analog input module function.	Product role TI-405-8ADC performs its configured function inside SIMATIC TI 405.
Downstream Receiving channel, field device or operator interface.	Supervision Diagnostics, alarms and process indications confirm healthy operation.

Applications and operating context

COMMON APPLICATIONS

Installed-base maintenance Restore the assigned eight-channel analog input module position without changing the surrounding system design.	Loop and channel service Retain terminal assignments, scaling and channel ownership during controlled replacement.
Fault isolation Separate module, field wiring and configuration causes during troubleshooting.	Commissioning Prove the complete signal path before returning the process to service.

OPERATIONAL WORKFLOW

Normal operation	TI-405-8ADC maintains the assigned eight-channel analog input module path.
Inspection	Review physical condition, status and process indications.
Fault isolation	Separate field, connection, module and configuration causes.
Replacement	Match the complete identity and restore retained interfaces.
Commissioning	Prove static and dynamic response under controlled conditions.
Return to service	Remove bypasses after alarms and process behavior are accepted.

SERVICE PLANNING

People Controls, electrical and operations roles defined.	Information Marking, configuration and connection map available.
Hardware Correct replacement, tools and test equipment prepared.	Process Isolation, test and release windows approved.

Model-specific questions

FAQ

Which control family uses Siemens TI-405-8ADC?	Siemens TI-405-8ADC belongs to the SIMATIC TI 405 platform.
What function does Siemens TI-405-8ADC perform?	It performs the eight-channel analog input module function.
Which resolution applies to Siemens TI-405-8ADC?	Resolution: 12 bit.
How does Siemens TI-405-8ADC use its current ranges?	Current ranges: 0 to 20 mA; 4 to 20 mA.
Why must the voltage ranges be checked on Siemens TI-405-8ADC?	The applicable value is 0 to 5 V; 1 to 5 V; 0 to 10 V; ±5 V; ±10 V and it must match the installed position.
Which user supply should be retained for Siemens TI-405-8ADC?	Retain 24 V DC.
What commissioning result is required for Siemens TI-405-8ADC?	Confirm the complete eight-channel analog input module path from its field interface through the assigned system function.
How should Siemens TI-405-8ADC be identified before replacement?	Match the full TI-405-8ADC marking and all installed interfaces before removal.

MAINTENANCE DECISIONS

Keep in service	Status and end-to-end response remain stable.
Investigate	Intermittent value, diagnostic or connector condition appears.
Replace	Confirmed product fault persists after field and configuration checks.
Escalate	Identity, compatibility or process consequence remains unclear.

SUCCESSFUL OUTCOME

Identity Exact model and installed position agree.	Connections Every assigned interface is restored.
Configuration All retained settings are active.	Response The process and diagnostic path pass testing.

Precautions and selection

EIGHT PRODUCT PRECAUTIONS

1	Confirm the complete Siemens TI-405-8ADC marking before removal.
2	Place the affected SIMATIC TI 405 function in its approved maintenance state.
3	Record terminals, connectors and installed orientation before disconnection.
4	Retain channel assignments, scaling and communication settings.
5	Inspect mating contacts and terminal hardware for damage or contamination.
6	Restore shields, commons and protective grounding exactly as assigned.
7	Energize under controlled conditions and review module status.
8	Verify the end-to-end process response before release.

RELATED SIEMENS PRODUCT PAGES

Siemens 6DD1681-0AG2	https://www.apterpower.com/Siemens/Siemens-Simadyn/6dd1681-0ag2
Siemens 6DD1681-0AE2	https://www.apterpower.com/Siemens/Siemens-Simadyn/6dd1681-0ae2

FINAL PRODUCT SUMMARY

Model	TI-405-8ADC
Family	SIMATIC TI 405
Function	eight-channel analog input module
Selection basis	Complete identity, interfaces and configured function
Installation basis	Saved connections and controlled configuration
Release basis	Verified mechanical, electrical, logical and process response