

TRICONEX SAFETY SYSTEM

Product Data Sheet

HCU3700/3703E

HART communication unit

FUNCTION	FAMILY	ORIGIN	WEIGHT
HART communication unit	Triconex safety system	United States	3.2 kg

Triconex HCU3700/3703E is a HART communication unit for the Triconex safety system. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Component Type	HART communication unit
Order Reference	HCU3700/3703E
System Platform	Triconex safety control system
Primary Function	Couples HART data to analog inputs
Channel or Port Capacity	Supported 3700 and 3703E channels
Electrical Classification	HART over analog field loops
Compatible Hardware	3700A and 3703E AI modules
Mounting Arrangement	Tricon cabinet assembly
Connection Interface	Analog-loop communication interface
Diagnostic Coverage	Loop identity and device-status checks

ADDITIONAL PRODUCT DATA

Documented Variant	HCU for 3700-3703E
Operating Environment	0 to 60 °C controller service
Storage Environment	–40 to 75 °C equipment storage
Relative Humidity	5 to 95% non-condensing
Commissioning Requirement	Verify every affected safety path

OFFICIAL APPLICATIONS

- Reach smart transmitters on analog loops: Read device identity and diagnostics without disturbing the primary process measurement.
- Loop data alignment: Match instrument tags, ranges and engineering units to the Tricon configuration.
- Maintenance interrogation: Check every connected device after HCU service and archive the returned status.

SYSTEM COMPATIBILITY

Match HCU3700/3703E to the installed Triconex safety system, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

Tricon Technical Product Guide

<https://www.se.com/ww/en/work/products/industrial-automation-control/triconex-safety-systems/>

AMIKON PRODUCT SUPPORT

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