

HART-TCP Modbus Converter



Overview

The HART Data Acquisition Module collects HART instrument data, one analog signal, and two digital input signals for access over an Ethernet network.

Its embedded TCP/IP gateway supports remote parameter configuration.

The module integrates a HART modem, a 32-bit A/D converter, signal conditioning circuitry, and a watchdog circuit. Configuration settings are retained after power loss, and onboard EEPROM stores acquired data at a configurable interval.

Key features

- Reads instrument data through one HART interface
- Acquires one analog signal and two digital input signals
- Supports 4–20 mA and 0–5 V analog signal acquisition
- Configurable acquisition parameters, measurement range, and zero point
- Stores acquired data in EEPROM at a configurable interval
- Retains configuration settings after power loss
- Supports local and remote parameter queries and configuration
- Allows parameter configuration over Ethernet
- Provides power and HART communication status indicators

Selection

Model	Input Signal
HTC-100	1 x HART
HTC-102	1 x HART, 1 x AD, 2 x DI

Technical specifications

Parameter	Specification
HART interface	1
HART sampling resistance	250 Ω
Analog input 1	1: 4–20 mA or 0–5 V
A/D converter	32-bit
Digital Input	2
Network interface	Ethernet TCP/IP gateway
Data storage	Onboard EEPROM
Storage Interval	Configurable
Supply voltage	9–24 V DC
Operating temperature	–20 to +80 °C
Enclosure dimensions	94 × 103 × 33 mm (L × W × H)
Stated protection rating	IP65

