

VHC10-F

HART 4-20 mA CONVERTER AND INDICATOR

field model



- ✓ HART® 7 Communication Protocol
- ✓ Up to 3 Devices Monitoring
- ✓ Configuration for Monitoring Variables
- ✓ Configuration for Main Variable Work Range
- ✓ Analog Channel for Main Variable Monitoring
- ✓ Operation Limit Alerts
- ✓ HART® Primary or Secondary Master Operation
- ✓ Power Supply 12 to 45 Vdc
- ✓ Analog Output 4-20 mA NAMUR NE43
- ✓ Operating Temperature -40 to 85 °C
- ✓ Support to EDDL and FDT/DTM Programmers/Tools
- ✓ 5-digit, rotative, multi-function LCD including bargraph

DESCRIPTION

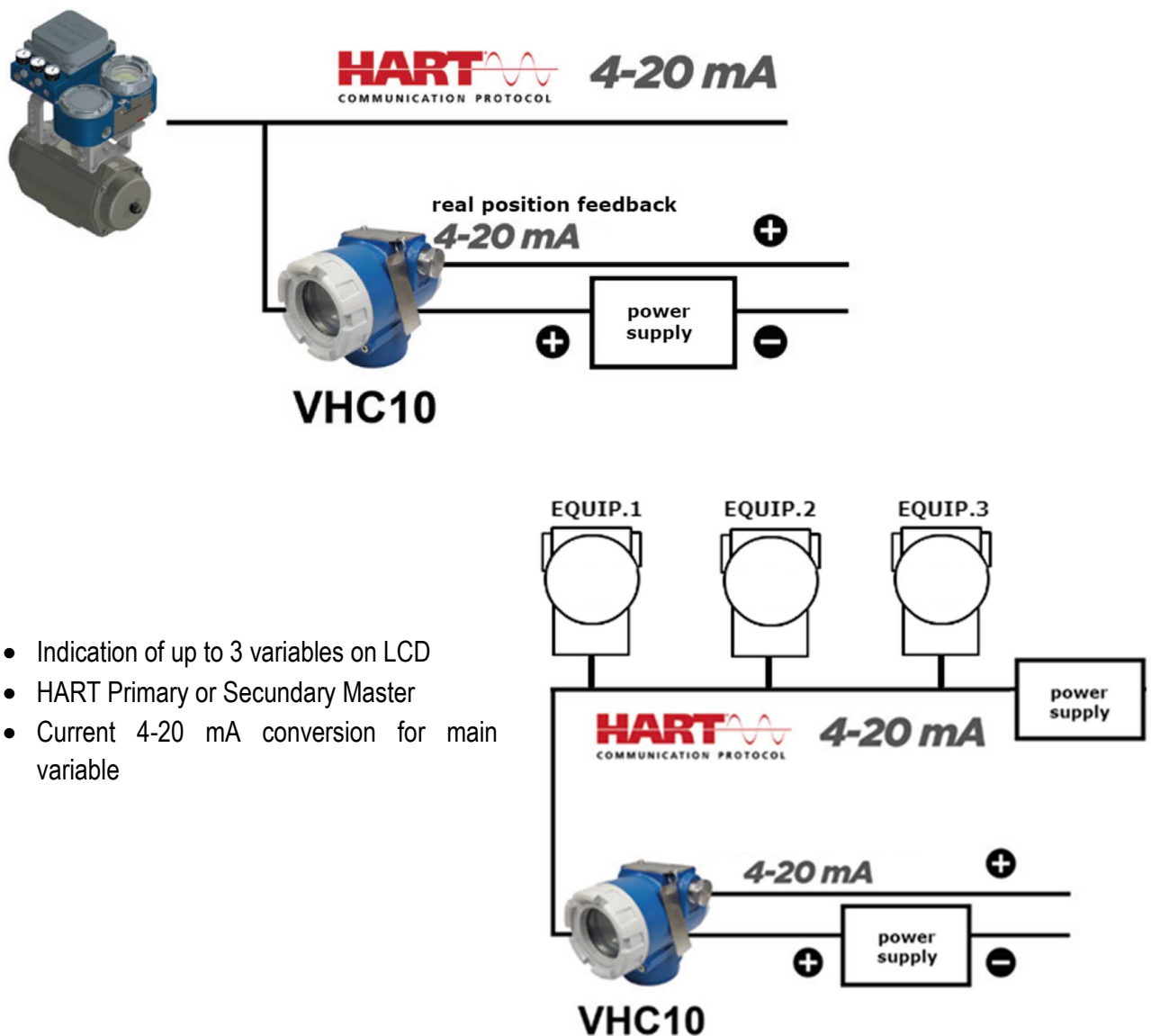
VHC10-F is a member of *Vivace Process Instruments* product family, projected to create an additional 4-20 mA current channel, helping analog monitoring on devices that do not have this characteristic (valve positioners, for example) or that need this monitoring for more than one variable. It also provides indication for up to three variables on a 5-digit numerical and alphanumeric LCD, including status icons and bargraph.

The converter can be powered by a 12 to 45 Vdc power supply, generating a 4-20 mA current channel (according to standard NAMUR NE43). Its main function is to monitor any HART device variables (independent of its version), configured by user and extern the main variable using the output current channel.

The configuration uses HART® 7 communication protocol, already established on the world of industrial automation for configuration, calibration, monitoring and diagnostics. This configuration occurs in the beginning of work cycle, when converter stays on "slave" mode, being finished by user with the changing of this mode to "master".

Configurations can be accomplished by using any HART configurator, EDDL or FDT/DTM-based tools or local adjust with specific magnetic screwdriver.

CONNECTION



PHYSICAL AND TECHNICAL SPECIFICATIONS

Accuracy	± 0.03% of Calibrated Span
Power Supply/Current Output	12 to 45 Vdc / 4-20 mA according to NAMUR-NE43
Communication Protocol	HART® 7
Classified Areas	Explosion Proof and Intrinsically Safe
Environment Temperature Limits	- 40 to 85°C
Configuration	Local Adjust, EDDL, FDT/DTM, PALM and Android®
Display	5-digit, rotative, multi-function LCD
Protection Degree	IP67
Housing Material	Aluminum
Weight	600 g

ORDERING CODE

VHC10-F *HART® 4-20 mA Field Converter*

Certification Type	0	NO CERTIFICATION
	1	INTRINSICALLY SAFE
	2	EXPLOSION PROOF
Certification Body	0	NO CERTIFICATION
	1	INMETRO
Housing Material	A	ALUMINUM
Electrical Connection	1	½ – 14 NPT
Painting	1	BLUE – RAL 5005
Mounting Bracket	0	NO BRACKET
	1	SS 304 BRACKET

Ordering Code Example:

VHC10-F - 0 0 A 1 1 0

**Explosion Proof Certification Ex tb (dust ignition) and Ex db (flame)*

