HIM
Smart HART® Loop
Interface and Monitor

digital YEWFLO

Use the HIM HART® Loop Interface and Monitor to Get More Information From the digitalYEWFLO HART Multivariable Vortex Flowmeter

Moore Industries' **HIM HART Loop Interface and Monitor** lets you take full advantage of the high performance **YOKOGAWA digitalYEWFLO Multivariable Vortex Flowmeters**.

The digitalYEWFLO calculates mass flow of saturated steam based on steam tables embedded in the software and mass flow of liquids based on programmed fluid temperature co-efficients. It provides this measurement to the control system via a 4-20mA signal. The digitalYEWFLO also measures process temperature, and provides totalized value and calculated density.

"Break Out" Additional Measurements

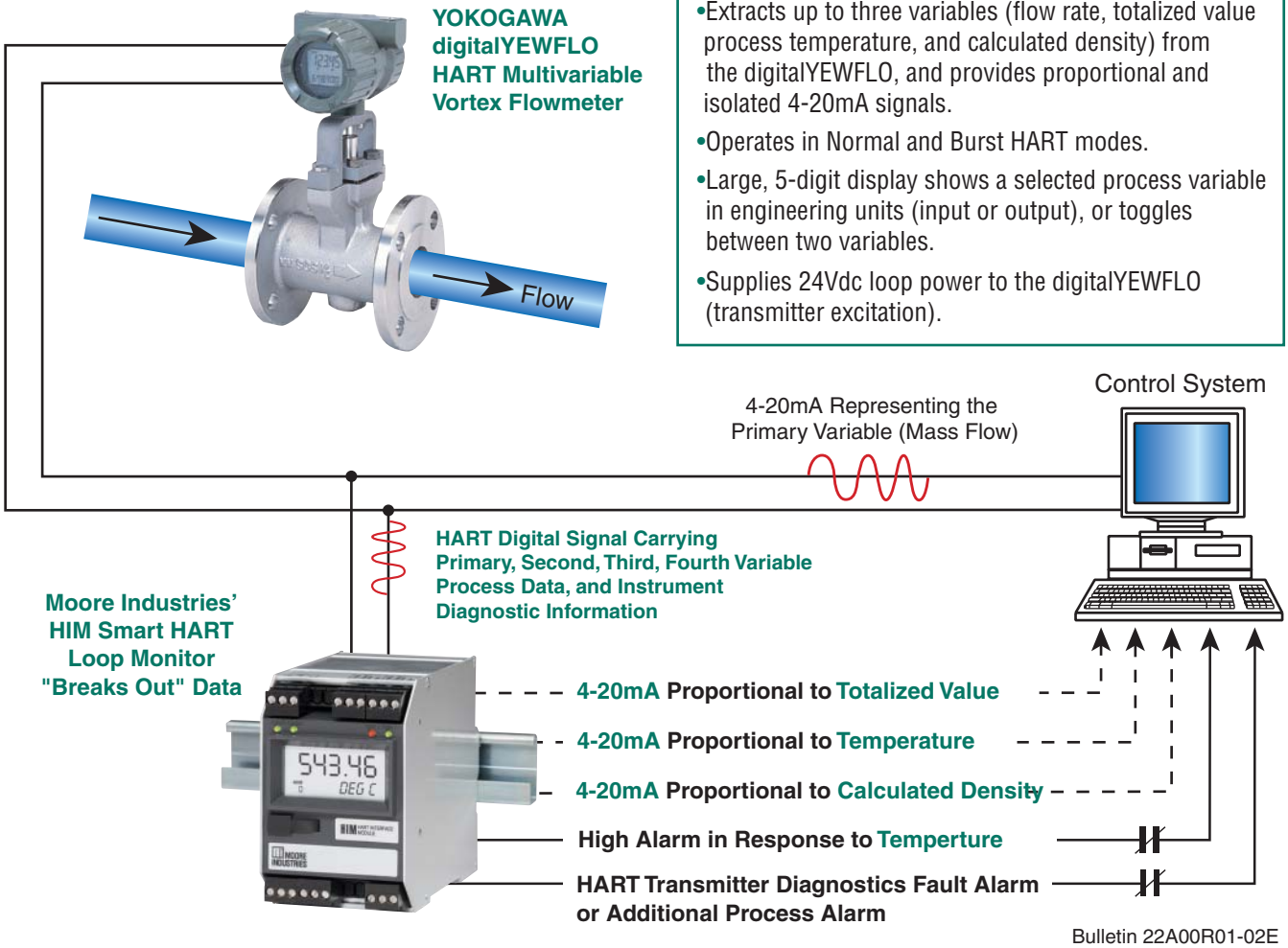
The HIM lets you see all of the digitalYEWFLO's information at your control system. Installed transparently across the 4-20mA HART loop, the HIM extracts up to three of the the digitalYEWFLOW's measurements or calculations by reading the HART digital data that "rides" on the loop wires. It converts the data to isolated analog (4-20mA) signals ready for input to a DCS or PLC.

High/Low Process and Loop Diagnostic Alarms

The HIM's optional relay outputs can be used to trip on high/low process conditions, or trip when transmitter fault diagnostic conditions are sensed.

Advantages

- Extracts up to three variables (flow rate, totalized value process temperature, and calculated density) from the digitalYEWFLO, and provides proportional and isolated 4-20mA signals.
- Operates in Normal and Burst HART modes.
- Large, 5-digit display shows a selected process variable in engineering units (input or output), or toggles between two variables.
- Supplies 24Vdc loop power to the digitalYEWFLO (transmitter excitation).



Bulletin 22A00R01-02E

HIM

Smart HART Loop
Interface and Monitor

digital YEWFLO

Specifications

For detailed specifications, please refer to each reference document.

Channel	Output	Description
1	0-20mA 4-20mA	**Convert HART Digital Data to 4-20mA Signals—**Each user-programmable channel provides an analog value proportional to any available HART variable of the digitalYEWFLO Vortex Flowmeter's (Primary, Second, Third and Fourth Variable); Outputs are fully scaleable for any range, such as 4-20mA, between 0-20mA (4mA span minimum) into 1100 ohms; internally- or externally-powered, sink or source.
2	0-20mA 4-20mA	
3 (Optional)	0-20mA 4-20mA	
4 (Optional)	Relay	**Process and Diagnostic Fault (Relay) Alarms—**User-programmable alarm (relay) outputs are individually configurable: •**Process and Status High/Low Alarm** with user-selectable trip point(s) that respond to any available dynamic HART variable of the digitalYEWFLO Vortex Flowmeter (Primary, Second, Third and Fourth Variable). •**HART Instrument Diagnostic/Fault Alarm** that responds to one, some, or all (user-selectable) of the following HART Status Bit conditions: Primary Variable out of limits; Non-Primary Variable out of limits; Primary Variable analog output out of limits; Primary Variable analog output fixed; cold start; field device malfunction; more diagnostic information available; and based on additional status bits using HART Command 48. •**HIM Self-Diagnostic/Fault Alarm** continuosly monitors its own status, and initiates an alarm if it senses an abnormal condition.
5 (Optional)	Relay	

digitalYEWFLO Multivariable HART Variable Assignment:

Model	Primary Variable	Second Variable	Third Variable	Fourth Variable
digital YEWFLO Multi-variable	Flow Rate	Totalized Value	Process Temperature	Calculated Density

Basic HIM Characteristics*

Input: HART digital protocol from digitalYEWFLO HART Multivariable Vortex Flowmeter
Analog Outputs: Two or three (optional) isolated 4-20mA signals
Alarm Outputs: Optional one or two alarms (contact closure) warn of high/low process conditions or loop diagnostic problems
Power Supply: 24DC, ±10%
Ambient Storage and Operating Range: -40˚C to +85˚C (-40˚F to +185˚F)

*For complete HIM information and specifications, see Moore Industries' HIM data sheet.

⚠ NOTICE Before operating the product, read the user's manual thoroughly for proper and safe operation.

*HART is a registered trademark of the HART Communication Foundation.

HIM Manufactured By:

WORLDWIDE • www.miinet.com

MOORE INDUSTRIES

United States • info@miinet.com
Tel: (818) 894-7111 • FAX: (818) 891-2816

Australia • sales@mooreind.com.au
Tel: (02) 8536-7200 • FAX: (02) 9525-7296

Belgium • info@mooreind.be
Tel: 03/448.10.18 • FAX: 03/440.17.97

The Netherlands • sales@mooreind.nl
Tel: (0)344-617971 • FAX: (0)344-615920

China • sales@mooreind.sh.cn
Tel: 86-21-62491499 • FAX: 86-21-62490635

United Kingdom • sales@mooreind.com
Tel: 01293 514488 • FAX: 01293 536852

A Yokogawa Commitment to Industry

vigilance® quality innovation foresight

What does Yokogawa **vigilance** mean to the future of your business? ***Quality.*** Through products that are built from the ground up and tested to the last hour, you're ensured continuous operation and more uptime. ***Innovation.*** Your business will benefit from new insights and capabilities, bringing true predictability to your process. ***Foresight.*** As the market changes, you'll have solutions that give you the continuity and flexibility to plan ahead and grow. Our partners know the difference. With Yokogawa, you can count on a lifetime of plant efficiency, from instrumentation to operation support. Let us be vigilant about your business.

YOKOGAWA ELECTRIC CORPORATION
World Headquaters
9-32, Nakacyo 2-chome, Musashino-shi,
Tokyo 180-8750, JAPAN
http://www.yokogawa.com

YOKOGAWA CORPORATION OF AMERICA
2 Dart Road, Newnan, GA 30265-1094, U.S.A.
http://us.yokogawa.com

YOKOGAWA EUROPE B.V.
Databankweg 20, 3821 AL Amersfoort, THE NETHERLANDS
http://www.yokogawa-europe.com

YOKOGAWA ENGINEERING ASIA PTE. LTD.
5 Bedok South Road, Singapore 469270, SINGAPORE
http://www.yokogawa.com.sg

Represented by:

Printed in Japan, 510(KP) [Ed : 01/b]

YOKOGAWA