



HIM
Smart HART® Loop
Interface and Monitor

digital
YEWFLOW

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

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

The digitalYEWFLOW 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 digitalYEWFLOW also measures process temperature, and provides totalized value and calculated density.

"Break Out" Additional Measurements

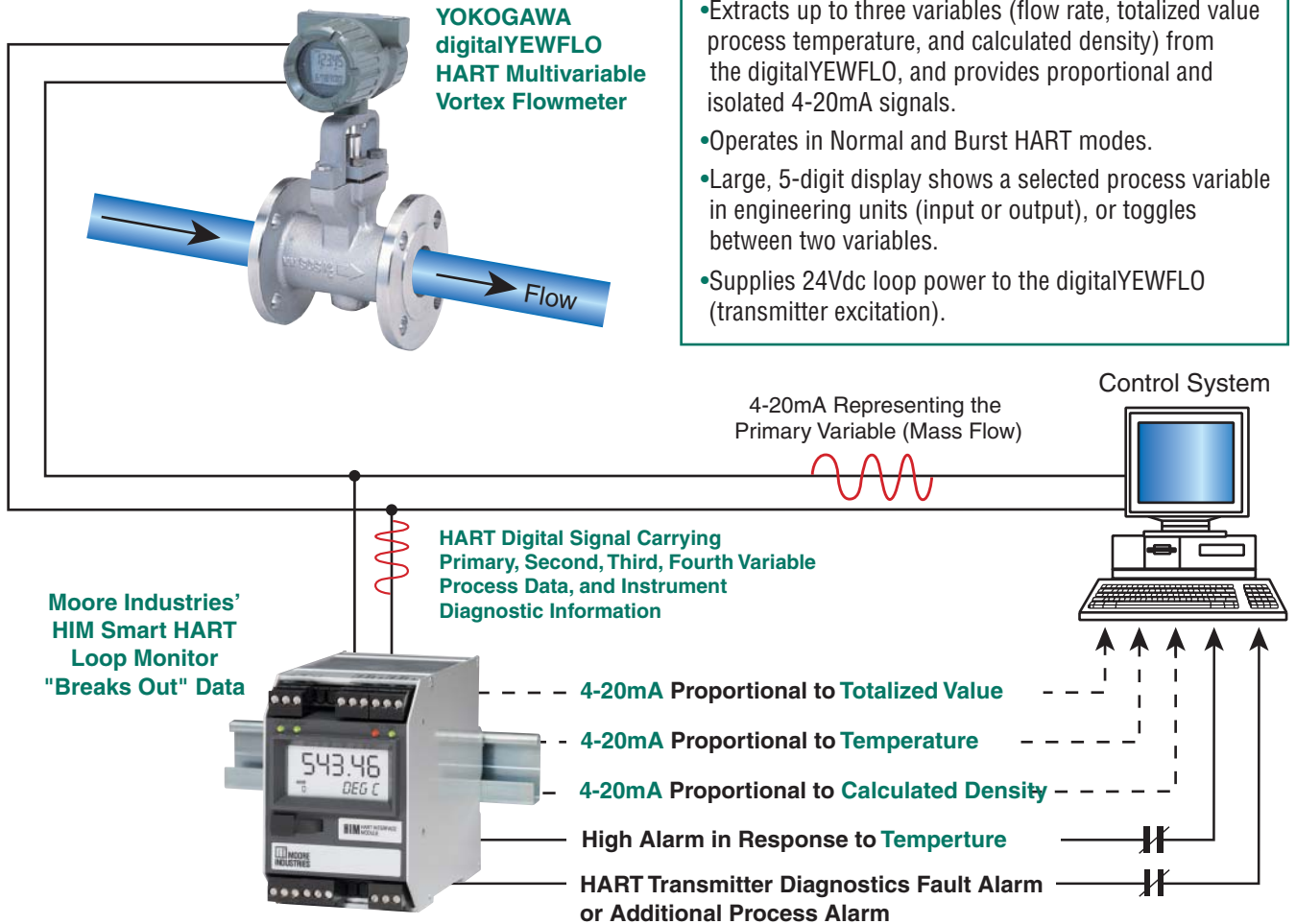
The HIM lets you see all of the digitalYEWFLOW's information at your control system. Installed transparently across the 4-20mA HART loop, the HIM extracts up to three of the the digitalYEWFLOW's measurements or calculations by reading the HART digital data that "rides" on the loop wires. It converts 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 digitalYEWFLOW, 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 digitalYEWFLOW (transmitter excitation).



Bulletin 22A00R01-02E

www.yokogawa.com

vigilantplant.™
The clear path to operational excellence

YOKOGAWA ◆



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 continuously 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.

The names of the companies and their products listed in this catalog are all trademarks or registered trademarks of those companies.

HIM Manufactured By:



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

WORLDWIDE • www.miinet.com

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



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 Headquarters
 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>

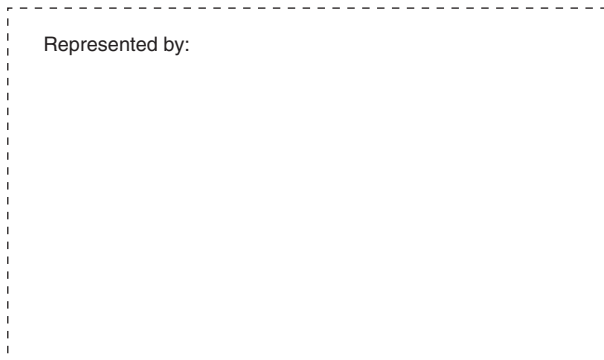
YOKOGAWA EUROPE B.V.

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]