



# HART Variable Bridge

InnovativeField Organizer™

## Toward Plant Digital Transformation Utilize HART dynamic variables more effectively on your DCS and/or PIMS

(Plant Information Management System)

By using HART communication, InnovativeField Organizer™ (IFO) collects multiple dynamic HART variables, in real-time from field instruments, that can not transmit to the upper layer system such as DCS with conventional 4-20mA analog signal. The multiple dynamic HART variables make your plant operation improve by solving your issue as below.

**Conventional** Operators decide manipulation amount based on density data that is analyzed at lab by using sample from process by frequency once a day or a few days. So, their decision always exists time lag.

**With IFO** Operators can make the manipulation amount decision while monitoring the density data in real-time from Coriolis Flow meter.

**Conventional** DCS can not display the process value when the process is in out of range of 4-20mA such as immediate after plant starting.

**With IFO** Even though analog signal is in out of range of 4-20mA, the process data can be displayed in case of measurable range of field device.

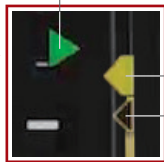
**Conventional** Operators can't usually monitor valve opening whether control valves behave along DCS Out signal.

**With IFO** You can make decision in a moment without going to the plant field whether the control valve operates poorly or not.

### In combination with Harmonas-DEO™



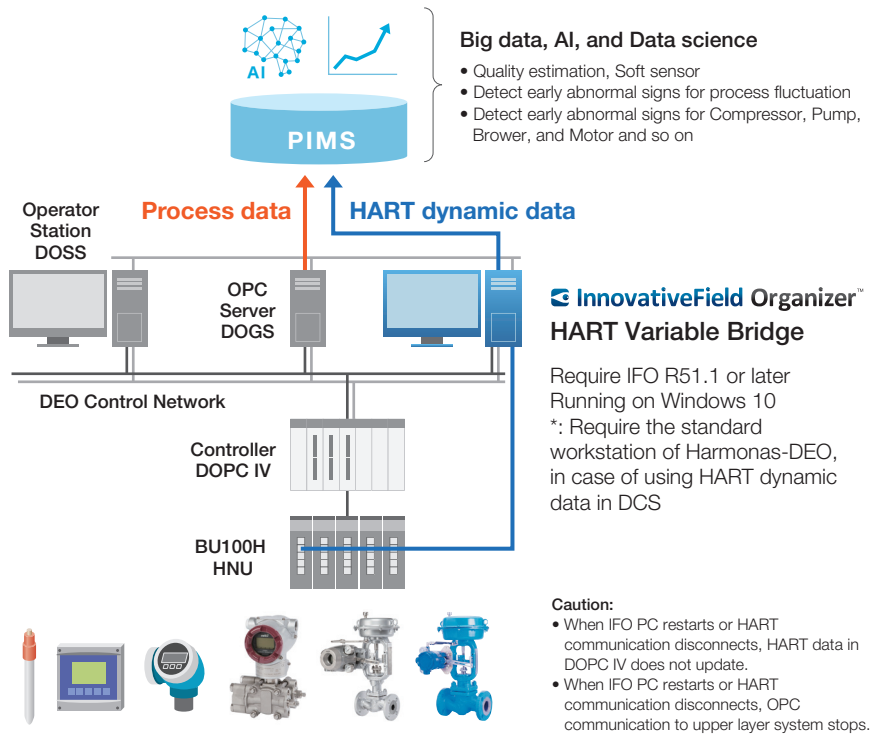
Utilize HART dynamic data with DCS operation



DCS Out  
Travel

In case of Model AVP positioner (HART type), the Travel (valve opening) can be displayed beside DCS Out on the faceplate. (require Harmonas-DEO R510 or later and DOPC IV R5.0 or later)

Up to 8 variables (HART dynamic data) by HART command 3 or command 9 can be utilized in DCS. Require DOPC IV to utilize HART dynamic data in Harmonas-DEO.



#### Big data, AI, and Data science

- Quality estimation, Soft sensor
- Detect early abnormal signs for process fluctuation
- Detect early abnormal signs for Compressor, Pump, Brower, and Motor and so on

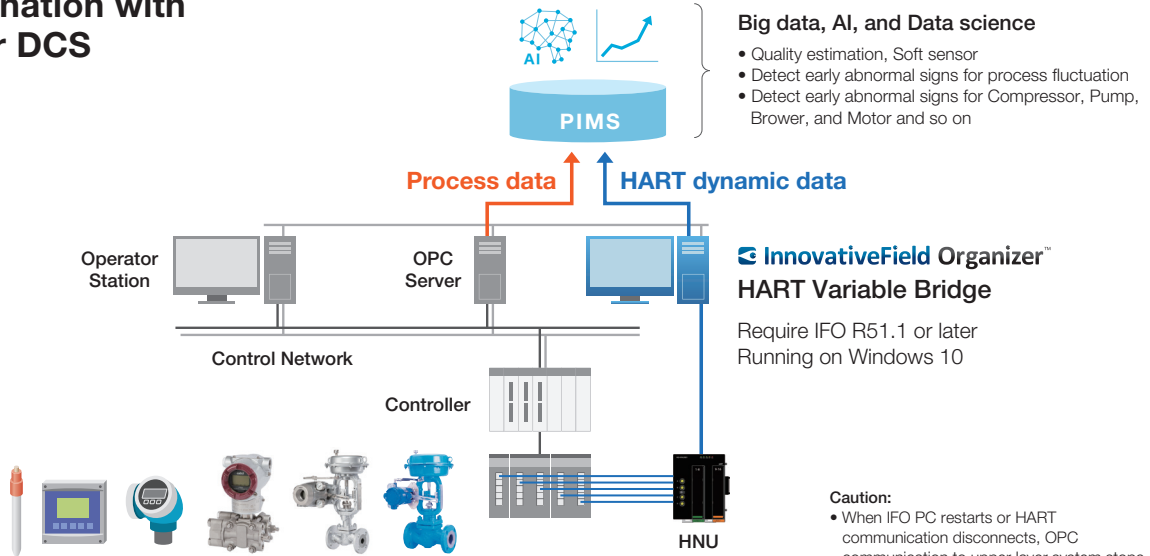
#### InnovativeField Organizer™ HART Variable Bridge

Require IFO R51.1 or later  
Running on Windows 10  
\*: Require the standard workstation of Harmonas-DEO, in case of using HART dynamic data in DCS

#### Caution:

- When IFO PC restarts or HART communication disconnects, HART data in DOPC IV does not update.
- When IFO PC restarts or HART communication disconnects, OPC communication to upper layer system stops.

### In combination with the other DCS



#### Big data, AI, and Data science

- Quality estimation, Soft sensor
- Detect early abnormal signs for process fluctuation
- Detect early abnormal signs for Compressor, Pump, Brower, and Motor and so on

#### InnovativeField Organizer™ HART Variable Bridge

Require IFO R51.1 or later  
Running on Windows 10

#### Caution:

- When IFO PC restarts or HART communication disconnects, OPC communication to upper layer system stops.

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