
Date:	2011/04/10	Bulletin No.:	PMB-VS-T-11-21
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Technical Information

Title: All HART type AVP/SVX needs Special RFQ (TOKUMI) operation

1, Summary

This PMB introduces start of Special RFQ (TOKUMI) operation of all HART type smart valve positioners. Because of some inconformity of those products to HART protocol standards, comprehensive technical check is required from April 2011.

2, Models

AVP302, AVP202, SVX102, AVP102

3, Summary of inconformity to HART protocol standard

Following 4 types of inconformity are the subjects of Special RFQ (TOKUMI) operation. For detailed information, please refer to IAP Quality information #41-062.

(http://192.168.240.30/a-port/IBD_general/QualityAssuranceDepartment/QI/index.html)

A) No-response issue

Because electrical circuit design of HART type AVP/SVX does not perfectly satisfies requirements of HART communication standard, there are rare cases that they cannot receive and response to HART command signal that is sent from a node in DCS network.

As a result, communication error is frequently observed in this type of system.

This inconformity is typically observed when they are used with Siemens PCS7 series DCS.

B) Cross-talk issue

Because of the circuit design of the HART type AVP/SVX, a HART command signal that is sent from a HART host to the HART type AVP/SVX is spread to another AVP/SVX.

This phenomenon is rarely observed depending on the insulation of AO channel and the condition of grounding.

C) Command 38 issue

This issue arises when HART type AVP/SVX is used with DCS of Honeywell Experion PKS (EPKS) series.

The EPKS generally handles specific HART command called "command 38" and send this command to all field devices that is connected to the system. When the AVP/SVX receives this command, they do not respond and terminate the HART communication.

(This issue is already resolved in April 2011.)

D) Multiple HART host issue

This issue arises when HART communicator and Device management system with HART I/O are used at the same time.

Basically HART protocol standard accepts multiple host usage. But HART type AVP/SVX does not and only single host usage is accepted.

4, Policies of answer to Special RFQ (TOKUMI)

We will check following points and answer if the order is acceptable or not.

- A) An order is accepted if the issues are resolved at the timing of receipt of Special RFQ (TOKUMI) or the issues will be resolved at the timing of estimated order time.
- B) An order is acceptable if the DCS is non-HART type (The DCS does not use HART I/O). In this case, HART communicator or other HART host accessing through HART multiplexer will be considered as an independent and solo HART host.
- C) An order is accepted if the HART type AVP/SVX is already running at customer's plant and the ordered products are used as an addition, replace, or expansion to this plant.
- D) An order is accepted if the HART type AVP/SVX has passed interoperability test with other suppliers DCS in cooperation with the DCS supplier. Also, an order is accepted if we have enough job references that can be considerable as a proof of interoperability with the DCS.
- E) An order is not accepted if the problem will undoubtedly happen. (i.e. No-response issue of combination with Siemens PCS 7)
- F) An order acceptance is discussed if there is no job reference of combination of HART type AVP/SVX and specific DCS system.

5, How to issue the special RFQ (TOKUMI)

Special RFQ (TOKUMI) is required for a unit of PJ or JOB. The TOKUMI answer can be used to all items of HART type AVP/SVX in the PJ or JOB comprehensively.

Please use designated TOKUMI form attached to this PMB. Necessary information for this special RFQ (TOKUMI) is listed in this form.

6, Schedule

Immediately

7, Contact

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