

Q.Sonic Ultrasonic Flow Meter Checklist

General

Date:		Station Name:	
Location:		Meter type:	
Serial number:		Job performed by:	
Manufacturing year:		SF ticket number (if known):	
Vm Forward counter:		Vm Reverse counter:	
Reason to site/ Problem description:			
Previous adjustment/ changes made:			

Visual inspection

✓		Comment
	Meter body condition without side covers <i>e.g., external body condensation / rust</i>	
	Electronic Compartment	
	Cable / wiring	
	Weather exposure <i>e.g. Sunshade / sunshine from side</i>	
	Skid Design	<i>Please provide P&ID or fill up questionnaire: Estimation of Ultrasonic noise produced by control valves</i>
	Take photo of surrounding <ol style="list-style-type: none"> 1. Meter body (with and without side covers) 2. Skid + Installation layout diagram or sketch <i>(Endoscope for inner wall if required)</i>	

As found Condition

Data Collection at flow condition

✓		Comment
	Meter configuration backup <i>e.g., parameter file</i>	
	Meter Logfile	
	Multiple Pulse Collection (MPC)	
	Line Pressure	
	Line Temperature	
	Ambient temperature	
	Gas composition	<i>Please record / attach gas composition at the same period while PT and TT being taken.</i>

Data Collection at **NO** flow condition

✓		Comment
	Meter configuration backup <i>e.g., parameter file</i>	
	Meter Logfile	
	Multiple Pulse Collection (MPC)	
	Line Pressure	
	Line Temperature	
	Ambient temperature	
	Gas composition	<i>Please record / attach gas composition at the same period while PT and TT being taken.</i>

1. Task:

Only applicable if issues observed and software / hardware changes required

Hardware

✓						Comment
	Cleaning <i>e.g., Transducers / transducers bore/ assembly cleaning</i>					
	Transducers replacement Note: Please pack retracted transducer independently					
		Transducer A		Transducers B		
	Path	Old Transducer's SN	New transducer's SN	Old Transducer's SN	New transducer's SN	
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						

INFO:

Q.Sonic	No. of Path	Path 1	Path 2	Path 3	Path 4	Path 5	Path 6	Path 7	Path 8
plus	6	B1-CW	B1-CCW	A1	A2	B2-CW	B2-CCW		
max8	8	B1-CW	D-RT	D-LT	A1	A2	D-RB	D-LB	B1-CCW

Hardware (continued)

	Other parts replacement	Old part's SN	New part's SN
	1.		
	2.		
	3.		
	4.		
	Others troubleshooting method <ul style="list-style-type: none"> • <i>Cable swapping</i> • <i>Tighten connector</i> • <i>etc.</i> 		

Software

✓		Comment
	Firmware upgrade <ul style="list-style-type: none"> • <i>What has change?</i> • <i>Recommended by TAC</i> Yes No	<i>Old Firmware version:</i> <i>New Firmware version:</i>
	Parameter Configuration changes <ul style="list-style-type: none"> • <i>What parameter has change?</i> • <i>Recommended by TAC</i> Yes No	
	Others troubleshooting method	

General comment

2. As left documentation:

Only applicable if issues observed and software / hardware changes required

Data Collection at flow condition

✓		Comment
	Meter configuration backup <i>e.g. parameter file</i>	
	Meter Logfile	
	Multiple Pulse Collection (MPC)	
	Line Pressure	
	Line Temperature	
	Ambient temperature	
	Gas composition	<i>Please record / attach gas composition at the same period while PT and TT being taken.</i>

Data Collection at **NO** flow condition

✓		Comment
	Meter configuration backup <i>e.g. parameter file</i>	
	Meter Logfile	
	Multiple Pulse Collection (MPC)	
	Line Pressure	
	Line Temperature	
	Ambient temperature	
	Gas composition	<i>Please record / attach gas composition at the same period while PT and TT being taken.</i>

Note: If the As Left result is not expected / bad, please contact with Aftersales (Aftersales@honeywell.com) immediately with complete info collect in this checklist.

3. Follow up

Logfile / MPC data send to: Aftersales@honeywell.com

Faulty transducers send to Elster GmbH, Germany. Please fill up the Customer Return Delivery Note. Form can be downloaded from:

<https://process.honeywell.com/us/en/site/elster-instromet/support#repairs>



Questionnaire for estimate of ultrasonic noise produced by control valves

For calculating the production of noise please supply us with the following information:

General: Customer
Site

US flowmeter: Make: Instromet Ultrasonics
Type:
Diameter

Valve: Make:
Type:
Diameter:

Installation: Drawing (or sketch) of the installation in which the presence of the following piping elements can be seen:

- Turbine meter
- Elbows
- Out of plane bends
- Tee's
- US flowmeter up or downstream of valve?
- 45 degrees bends
- Reducer/expander
- Distance valve <> US flowmeter
- Other attenuating elements

Process conditions:

Flow	max:	Pressure cut:	max:
	min:		min:
	nominal:		nominal:
Static Pressure	Before valve:	max:	
		min:	
		nominal:	
	After valve:	max:	
		min:	
		nominal:	

Thank you for supplying us with the above mentioned information. With this information we can predict the functionality of our ultrasonic flowmeter for your specific application

With best regards,
Elster-Instromet

signature

Signed by:

ELSTER – Customer Return Delivery Note Electronic – Components for Mainz-Kastel, Germany



Dear Customer,

Customer satisfaction is very important for our company and one of our main objectives is to comply with the increasing requirements to the devices. For a faster complaint handling you will be provided today with a return delivery note for sending back an electronic component. We kindly ask you to complete the data required below and return the device together with this delivery note to the address listed on the bottom of the delivery note.

For further questions please contact our electronic hotline at: +49 (0) 6134 / 605-123 or by e-mail at: "ElsterSupport@honeywell.com".

Thank you

Customer:		
Name:	E-Mail Address:	Date:
Company:	Telephone Number:	

Contact Person at Elster:		
Name:	Ticket No.:	Date:
Note:		

Complained Device:		<input type="checkbox"/> Estimate of cost for repair	<input type="checkbox"/> claim	<input type="checkbox"/> other
Type of device:	Serial No.:	Year:		
Connected options:	Inputs:			
	Outputs:			
	Remote Control:			
Full Complaint Description:				
Note:				

Delivery Address:
Please return the complained device including this return delivery note to:
Elster GmbH; Electronic Repair; Steinernstraße 19-21; D-55252 Mainz-Kastel; Germany