

To Whom It May Concern

Engineering change notice CAN low speed transceiver

Dear valued customer


This ECN is being issued to inform you of a change to ClampOn DSP Subsea instruments with CAN interface. The CAN interface must have a change in the CAN transceiver. Model type and model numbers for the product will not change. Description and extent of change:

Affected products and model numbers		
ClampOn DSP Subsea Particle Monitor	SSE.DS2N.DC20.B20	SSE.DS2N.SC20.B10
ClampOn DSP Subsea Vibration Monitor	SSE.DS2N.SC21.B10	SSE.DS2N.SC20.B20
ClampOn DSP Subsea PIG Detector	SSE.DS2N.SC21.B20	SSE.DS2N.SC20.B30
ClampOn DSP Subsea Leak Monitor	SSE.DS2N.SC22.B14	SSE.DS2N.DC20.B10
ClampOn Subsea Flow Temperature Monitor		
Affected assemblies		
51449-01 Rev2	DSP II CAN gateway II electronics assembly	
Reason for change		
Replacement of EOL electronics components.		
Description of change		
The subsea instruments with the CAN interface will change the CAN transceiver:		
<ul style="list-style-type: none"> - New CAN transceiver is TJA1055T due to the fact the current CAN driver AMIS41683 is obsolete. - No PCB changes. Equivalent driver. - Bootloader firmware is changed to handle new driver. - Application firmware is changed to handle new driver. - Update internal hardware revision number. (CAN object 0x1009) 		
This change will not impact the form, fit, functionality or performance of the product.		
Related Documents		
62-321-00094 Firmware software releases		
62-321-00076 Manual for ClampOn CANopen documents		
62-321-00077 Communication Interface specification for ClampOn CANopen instruments		
Project or product specific User manuals.		
Implementation		
Electronics with the updated transceiver will be available from March 2024. Electronics with the current CAN transceiver can be delivered until Q3 2024, depending on demand. This availability is intended for expanding scopes and repeat orders. New projects should use the updated transceiver.		
Other information		
<ul style="list-style-type: none"> - 100% backwards compatible. - No change in external mechanical design. - No change for ClampOn DSP subsea Particle Monitor, CiA 401 version, this will use the AMIS transceiver until further notice. - The new CAN transceiver is recommended in the SIIS level 2 Recommended Practice. - The change is only on the CAN Gateway II board. No other boards are affected. - The product is still according to API 17F 4th Ed 2017. 		
Approvals		
26.204.0053.13 FMEA CAN Gateway II (Internal)		
26-140-00080 SIIS L2 Test Report CANII v1.18boot/v1.29app		
26-030-00358 Verification of TJA1055T transceiver		
26-130-00056 EMC report (Internal)		

For and on behalf of ClampOn AS
 Bergen, 29.12.2023


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