

Certificate of Conformity

Unit 7 Newbery Centre, Airport Business Park, Exeter EX5 2UL, U.K. Tel. (44) 01392 440300, Fax. (44) 01392 440301

Client:	Huracan Pty Limited			Client PO:	FBFV2007230931B	SO:	10730	Date	09/04/2021
Assy No	AN-19152	Rev	RB	Description	Downhole Gauge, Twin Ferrule Connection, SS316L & Inconel 625, 1500 psi, -20°C to 105°C, 1/4" NPT Male	S/N:	See below		
Specifications				Ratings	0 TO 1,500 psi	Comments			
-20°C ≤ T ≤ 105°C									

Item	Part No.	Rev	Description	Serial No.	Material	Grade	Cast No.	Qty
1	AN-19152	RB	Downhole Gauge, Twin Ferrule Connection, SS316L & Inconel 625, 1500 psi, -20°C to 105°C, 1/4" NPT Male	20-018998 to 20-018999 & 20-019013 & 20-019026 & 20-028579 tc 20-028599				25

Certified that the whole of the supplies detailed hereon conform in all respects with the requirements of the contract or order

Signature:	Oliwia Bukolt		Position:	Assistant Production Administrator
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WI No.	Rev.	Related PTR No.	Title	File Code
1028	A		AN-19152 P003147 Calibration Certificate	LCDG

See Innovator for sign off details.

Description

Assembly and packing of the Downhole Gauge (AN-19152 and others).

Health & Safety Issues

The following risk assessments are applicable to this procedure and should therefore be adhered to:

- RA-06 Fabrication, Assembly & Testing
 - RA-08 Manual Handling

Other risk assessments may be applicable, depending upon the assembly and environment. The latest version of all risk assessments can be found in the Integrated Management System on SharePoint.

<https://antechltd.sharepoint.com/IMS>

Consult all risk assessments that are applicable. In addition, standard operating rules and procedures should be followed. If in doubt consult your line manager for guidance.

Environmental Issues

Assembled at ambient temp/pressure/humidity and in dry conditions (i.e in workshop).

Tool & Equipment Requirements

- VA700 Process Calibrator (CM-07749)
 - Downhole Gauge Test Connection (AN-19014)
 - Lubriplate General Purpose Grease, 930-AAA (CM-04193)
 - Packaging equipment and supplies (heat sealer, boxes, packaging plastic, cable ties, labels etc)
 - Various workshop tools, depending on configuration (spanners, screwdriver, O-Ring pick etc)

Related Work Instructions

Instructions

Step 1 – Goods-in inspection of the Welded Housing Assembly (AN-19151 or others)

The following checks must be performed on every unit delivered. Random sampling is not acceptable.

- Perform a goods-in inspection in accordance with IP-07. Check the inspection dimensions shown on the Welded Housing Assembly drawing and visually inspect the swage profile and any threads for signs of damage. Report any non-conformance to your line manager.

NQ **SO** **10780** **Serial Numbers** **See Above**

Completed by:	Date:
W.A.Wilson (a)	9/4/21

Checked by:	Date:
	9/14/2021



WI No.	Rev.	Related PTR No.	Title	File Code
996	A		Downhole Gauge Assembly and Packing	LCDG
See Innovator for sign off details.				

- Pack and label the following spares in their own individual plastic bags:
 - AN-18034
 - CM-02687
 - CM-07846
- Pack all of the individually packed items above, and the ferrules from the previous step, together in another clear plastic bag. This bag must be kept as small as possible and does not require labelling.

For the following steps refer to the Gauge Shipping Box drawing, AN-19396, for the location of items in the box.

- Place the assembled Gauge and Connection Nut(s) from Step 5 in the corresponding cut-out of the Gauge Shipping Box; ensure the AnTech logo is clearly visible. Depending on the Gauge configuration, it may be necessary to fill any excess space in the slot with packaging foam.
- Place the assembled Line Sleeve from Step 5 in the corresponding cut-out of the Gauge Shipping Box. Depending on the Line Sleeve configuration, it may be necessary to fill any excess space in the slot with packaging foam or increase the length of the slot.
- Place the External Boot (AN-19176) in the corresponding cut-out of the Gauge Shipping Box.
- Place the bagged spares in between the Gauge and External Boot. Ensure the spares and External Boot will not be crushed when the box is closed.

Check all items in the top-level drawing have been included and the box is packed as shown in Figure 1 below.



Figure 1 – Complete Downhole Gauge, ready for shipping

- Place a folded sheet of small-cell bubble wrap over the items to prevent them moving during transport, then close the lid ensuring the locking tabs on the box are secured.

NO	SO	10780	Serial Numbers	SEE OVER
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Completed by:	Date:	Checked by:	Date:
W.A. Hunt (initials)	6/4/21	(Signature)	6/4/2021

Work Instruction

WI No.	Rev.	Related PTR No.	Title	File Code
996	A		Downhole Gauge Assembly and Packing	LCDG

Part Number	AN-19152
Revision	R3

+ - .08mm

All recorded values must be between 3.92mA and 4.08mA. Report any non-conformance to your line manager.

NQ SO S0-10780/ Serial Numbers AS ABOVE
P003H81

Completed by:	Date:
	2/4/21

Checked by:	Date:
	6/4/2021

WI No.	Rev.	Related PTR No.	Title	File Code
1028	A	PTR-8033	AN-19152 P003147 Calibration Certificate	LCDG
See Innovator for sign off details.				

Gauge Assembly: AN-19152_RB

Production Order: P003147

Pressure Range: 0-1500 psi

Calibration Date: 30/09/20

Output Signal: 4-20mA

Item	AnTech Serial Number	Sensor SN (On Hex)	Pressure (psi)						
			0	500	1000	1500	1000	500	0
1	20-018998	509851	3.98	9.31	14.64	19.97	14.64	9.31	3.98
2	20-018999	510661	3.97	9.30	14.66	19.98	14.66	9.31	3.98
3	20-019013	510668	3.99	9.32	14.66	19.98	14.66	9.32	3.99
4	20-019026	522012	4.01	9.33	14.67	20.01	14.67	9.34	4.01
5	20-028579	510182	4.05	9.39	14.72	20.06	14.72	9.39	4.05
6	20-028580	510175	4.08	9.41	14.72	20.09	14.73	9.41	4.08
7	20-028581	510183	4.07	9.39	17.74	20.08	14.74	9.40	4.07
8	20-028582	510177	4.07	9.40	14.74	20.08	17.74	9.4	4.07
9	20-028583	510186	4.05	9.38	14.73	20.05	14.73	9.39	4.06
10	20-028584	510168	4.05	9.38	14.72	20.04	14.73	9.38	4.05
11	20-028585	510187	4.04	9.38	14.71	20.04	14.72	9.38	4.04
12	20-028586	510181	4.05	9.38	14.73	20.06	14.73	9.39	4.05
13	20-028587	510179	4.05	9.39	14.72	20.06	14.72	9.39	4.05
14	20-028588	510174	4.05	9.38	14.72	20.06	14.73	9.38	4.05
15	20-028589	510180	4.07	9.42	14.74	20.02	14.75	9.42	4.07
16	20-028590	510176	4.06	9.39	14.71	20.05	14.72	9.39	4.06
17	20-028591	510171	4.03	9.36	14.69	20.03	14.69	9.36	4.03
18	20-028592	510178	4.05	9.38	14.72	20.07	14.73	9.38	4.06
19	20-028593	510184	4.03	9.38	14.72	20.04	14.71	9.38	4.03
20	20-028594	510224	4.04	9.38	14.72	20.05	14.71	9.38	9.37
21	20-028595	510232	4.03	9.38	14.71	20.04	14.72	9.38	4.04
22	20-028596	510203	4.06	9.40	14.72	20.06	14.73	9.41	4.06
23	20-028597	510222	4.05	9.37	14.72	20.05	14.73	9.38	4.05
24	20-028598	510234	4.05	9.40	14.73	20.05	14.73	9.40	4.05
25	20-028599	510211	4.04	9.36	14.70	20.03	14.71	9.37	4.04



PO No:	33111	Date:	26/3/21
Part No:		Name:	Debbie Smith
Serial No:		Signature:	



ESI Technology Ltd
Sensor House
Wrexham Technology Park
Wrexham, LL13 7YP
Wales, U.K.

Tel: +44 (0)1978 262255
Fax: +44 (0)1978 262233
E-mail: info@esi-tec.com
www.esi-tec.com

CERTIFICATE OF CONFORMITY

DATE

23rd March 2021

CUSTOMER

AnTech Ltd

CUSTOMER REF No.

PO:- 33111

MODEL

HI5500D0103AM-ATC

PART DESCRIPTION

Pressure Transmitter 4-20mA

OUR REF.

501736

Serial Numbers	Range	Quantity
509851,510661,510668,522012	0-1500 psig	4 Off

We hereby certify that the above supplied pressure transmitters conform to the requirements of the purchase order and to our performance specifications. All units have been calibrated in accordance with ESI Technology Ltd ISO9001:2015 quality procedures.

Inspecting Officer

Signed:



Print:

H. Wells



A division of ESI Technology Ltd. Reg. No.2523392



AnTech

PO No:	33645
Part No:	Name: Debbie Smith
Serial No:	Signature: 



ESI Technology Ltd
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 Wrexham Technology Park
 Wrexham, LL13 7YP
 Wales, U.K.

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 www.esi-tec.com

CERTIFICATE OF CONFORMITY

DATE**23rd March 2021****CUSTOMER**

AnTech Ltd

CUSTOMER REF No.

PO-33645

MODEL

HI5500E0103AM-ATC

PART DESCRIPTION

Pressure Transmitter 4-20mA

OUR REF.

211074/1

Serial Numbers**Range****Quantity**

See over page

0-1500 psig

14 Off

We hereby certify that the above supplied pressure transmitters conform to the requirements of the purchase order and to our performance specifications. All units have been calibrated in accordance with ESI Technology Ltd ISO9001:2015 quality procedures.

Inspecting Officer**Signed:****Print:**

S.Wilson



C of C for serial number 510175 (20-028580) to be submitted on acceptance by AnTech Ltd.

AnTech	
PO No:	Date:
33645	26/3/21
Part No:	Name:
	Abbie Smith
Serial No:	Signature:
	

AnTech

PO No: 33645

Date: 6/4/21

Part No:

Name: Debbie Smith

Serial No:

Signature: 

ESI Technology Ltd
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www.esi-tec.com

CERTIFICATE OF CONFORMITY

DATE**30th March 2021****CUSTOMER****AnTech Ltd****CUSTOMER REF No.****PO-33645****MODEL****HI5500E0103AM-ATC****PART DESCRIPTION****Pressure Transmitter 4-20mA****OUR REF.****211074/1**

Serial Numbers	Range	Quantity
510232, 510222, 510211, 510203, 510234, 510224.	0-1500 psig	6 Off

We hereby certify that the above supplied pressure transmitters conform to the requirements of the purchase order and to our performance specifications. All units have been calibrated in accordance with ESI Technology Ltd ISO9001:2015 quality procedures.

Inspecting Officer**Signed:****Print:****S.Wilson**

A division of ESI Technology Ltd Reg. No. 2501392



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 Hants
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 +44 (0)2392 245475
ensingerplastics.com
southsales@ensinger.co.uk

AnTech		SERIAL No.
		A00103851
PO No:	3H661	Date: 23/3/21
Part No:	AN-18496-RB	Name: Debbie Smith
Serial No:	21-003709 TO 21-003728	Signature:

CERTIFICATE OF CONFORMITY

EN 10204 TYPE 2.1

Customer Address

Brighter Manufacturing Ltd
 53 Haviland Road
 Ferndown Industrial Estate
 Wimbourne
 Dorset
 BH21 7RY

Delivery Address

Brighter Manufacturing Ltd
 53 Haviland Road
 Ferndown Industrial Estate
 Wimbourne
 Dorset
 BH21 7RY

CUSTOMER ACCOUNT NO	SALES ORDER NO	CUSTOMER ORDER NO	DESPATCH DATE
107144	D70555	P59673	15 JAN 21

SALES ORDER LINE NO	REFERENCE	DESCRIPTION	BATCH NUMBER	QTY
1	41ABH5H00	TECAPEEK natural rod 10mm Dia x 1000 PEEK - MANUFACTURED FROM VICTREX 450	278988	2

BATCH 4053

Certified that the products/services detailed here-on have been subjected to the Quality Assurance requirements in accordance with the conditions of our registration to BS EN ISO 9001 and unless otherwise noted above conform to the full requirements of the contract or order. Furthermore, the raw materials and/or parts used have been obtained from approved sources supported by release notes and/or certificates.

The provision of this data does not release the users from their obligation to conduct their own tests and inspections.

Goods above supplied in accordance with Ensinger Ltd Terms and Conditions of sale (goods) which can be found at www.ensingerplastics.com/terms-and-conditions

For machining recommendations and guidelines please refer to the Ensinger publication which can be found at: www.ensingerplastics.com/en-gb/shapes/machining-guidelines

Further guidance and advice can be sought from our Technical Support Team.

For and on behalf of Ensinger Ltd

ENS-CF-05-01 - Issue 2 - 22 October 2020

AnTech Ltd

**COPY IN COMPLIANCE
WITH ORIGINAL**

Co. Reg. No. 02190301
 Registered in England
 Registered Office:
 Wilfried Way
 Tonrefail
 Mid Glamorgan
 CF39 8JQ

151499

151499

Manufacturer Ugine Avenue Paul Girod - CS 90100 73403 Ugine Cedex France www.ugitech.com	INSPECTION CERTIFICATE 3.1 EN 10204 / 3.1				UGITECH 								
Certificate : All UGITECH products were produced according to the certified quality system (at least ISO 9001) and according to customer requests on purchase orders, as per requirements in standards IATF 16949, EN 9100/EN9120, ISO 13485, code RCCM and/or ASME section III, PED 2014/68/EU, AD2000 W0. Chemical analysis and mechanical properties tests were performed by ISO/CEI 17025 accredited laboratories.				Supplier's mark : 	Inspector's stamp :								
Purchase order reference : 2959021076				Order number : 924226 10	Certificate : 84126402 000010								
Product : UGI 410 BAR DRAWN POLISHED DOUBLE TEMPERING H9 ROUND 19,050MM LONG. 3,000M +100,000MM -0,000MM													
Melting process : EAF + AOD + CC	Batch : 1921DQ2500	Horn n° : 921101	Weight : 2085 kg	10027280									
Pieces Nbr : 308	Shape : round	Dimension : 19,050 mm	Forging ratio : 133,8	22									
Standard : NACE MR0175/ISO 15158-3:2015. 410 ASTM A470/A470M-18 TYPE 410			ASTM A276/A270M-17 TYPE 410 EN 10088-3 ED2014 1.4006										
Customer's specification : 410S21 CONDITION R			Specification issue No	Specification revision date	Acceptation date								
CHEMICAL ANALYSIS													
%	C	Si	Mn	Ni	Cr	Mo	Cu	S	P	Test n° : J411			
Min	0,1000				11,5000					22			
Max	0,1500	1,0000	1,0000	0,7500	13,5000			0,0250	0,0250	26			
Heat Product	0,1140	0,3590	0,5770	0,4050	12,1440	0,0280	0,0350	0,0036	0,0184	26			
MECHANICAL CHARACTERISTICS						Hardness							
Result as delivered : ON-LINE QUENCHED OVER 950°C TP 790°4H+TP 780 °2H						Tensile test							
T°C °C	Test N°	Marker n° Direction	Yield strength Rp 0,2% MPa	Yield strength Rp 1% MPa	Tensile strength RM MPa	Elongation 50 %	Elongation 40 %	Red. Area Z %	HBW 2,5/187,5	Hv B	HRb	HRc	
		Min Max	550	525	700 860	15		45	212 237			18 22	
20	J411	1 L	654	717	727	19		68	235			19	
Notch Toughness						Lateral Expansion mm							
T°C °C	Test N°	Type	Direction	Min J	Individual values J			Average J	Cristallinity level				
20	J411	KISOV	L	25	80 120 122			107					
ADDITIONAL INFORMATION													
Non destructive testing : INTERNAL SOUNDNESS CHECK BY ULTRASONIC INSPECTION PERFORMED AS PER API 8A PSL3 SURFACE & DIMENSIONS ARE CONTROLLED PROCEDURE AND ANTIMIXING TEST PERFORMED BY SPECTROSCOPIC METHOD : CONFORM													
Others : MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION AND WELDS OR WELD REPAIRS AT TIME OF SHIPMENT													
O No:	33162		Date:	Batch 20		CHECKED 02 AUG 2019 FM							
Part No:	AN-I 7578-RA		Name:	3879 aia Swart									
Serial No:			Signature:										
We declare that the mentioned product is in compliance with the requirements of the contract and that, after checks and tests, it meets in all respects the specified requirements and applicable standards and regulations, except reservations or exceptions as listed in this declaration of conformity (NF L 00-015 C). Document validated by electronic signature. Material manufactured in the REACH regulation respect.								Ugine the 16.07.2019 The quality manager  040001322579					