

PLANT MEMBRANE CHLORINE CAUSTIC SODA  
NAME Smart flow transmitter  
SUPPLIED BY DNP

UNIT 30 ITEM FT-090109  
QUANTITY 1  
REF.DWG. 9-AM-1001

OPERATING CONDITIONS:

FLUID Hydrogen  
PRESSURE 0.155 kg/cm<sup>2</sup> g  
TEMPERATURE 69 ° C  
DENSITY 0.116 kg/m<sup>3</sup>  
VISCOSITY 0.01 cps  
LEVEL HEIGHT  
SEALING FLUID  
STATIC PRESSURE

MEASURING ELEMENT

TYPE/MATERIAL Diaphragm/AISI 316  
WETTED PART MATERIAL AISI 316 st. st.  
RANGE 4.7 / 70 mbar  
OVERPRESSURE 80 bar  
LIMITS OF ERROR +/-0.1% of the range  
CALIBRATION 0:100 mmwg  
CONNECTIONS  
HP 1/2" NPT-F  
LP 1/2" NPT-F  
INSTRUMENT AIR  
ELECTRICALS 1/2" NPT-F

INSTRUMENT

TYPE Differential pressure transmitter  
Smart  
BODY MATERIAL AISI 316 st. st.  
ELECT. CLASS./PROTEC. Tropicalized-Intrinsic safety/IP67  
SCALE 0:100% Linear ( LCD type )  
ACTION Direct  
DIFFERENTIAL  
OUTPUT 4-20 mA dc  
OUTPUT LOAD  
SUPPLY 24V-dc

ACCESSORIES

ALARMS  
AIR FILTER REGULATOR  
ZERO ELEV./SUPP. RANGE .  
MOUNTING YOKE Required  
LOCAL INDICATOR Required  
CAPILLARY

CODE XTAC9CCARO 2I1

		INSTRUMENT		PROJECT: <b>750 NEI</b>	
		DATA SHEET		SPC. No. 750-FB-3080	
		PRESSURE TRANSMITTER		DATE SEP.2016	Sh. 11
PLANT		MEMBRANE CHLORINE CAUSTIC SODA			
DESCRIPTION	Pressure transmitter	Tag.	LT-090208		
SERVICE	HCL	Q.ty	1		
LOCATION		P&ID N°	6-AM-1001/750		
<b>OPERATING CONDITIONS</b>					
FLUID	HCL 33%				
PRESSURE	0.3 bar g.				
DESIGN PRESSURE	bar g.				
TEMPERATURE	25 °C				
DENSITY	1163 Kg/m <sup>3</sup>				
VISCOSITY	1.68 CP				
<b>INSTRUMENTS</b>					
TYPE	Pressure transmitter				
CONSTRUCTION	IP67 /IEC529				
CERTIFICATE	General purpose				
ACCURACY	+/-0.1 % of the range				
RANGE	std mfr.				
CALIBRATION	0/+3000 mmH2O				
STATIC PRESSURE	std mfr.				
BODY MATERIAL	AISI 316 st.st.				
WETTED PART	See seal				
HP CONNECTION TYPE / RATING	See seal				
LP CONNECTION TYPE / RATING	1/2" NPT-F				
ELECTRICAL CONNECTION	1/2 NPT-F				
POWER SUPPLY	24 Vdc				
OUTPUT SIGNAL	4*20 mA DC with digital communication HART protocol				
<b>SEAL</b>					
	HP SIDE	LP SIDE			
BODY MATERIAL	AISI 316 st.st.				
DIAPHRAGM MATERIAL	Tantalum				
CONNECTION TYPE / RATING	Flange , DN80 ,ND 16, St.St 316				
CAPILLARY MATERIAL / LENGHT	not required				
FILLING FLUID	Silicone Oil				
<b>ACCESSORIES</b>					
MOUNTING YOKE	Mounting bracket for 2-inches pipe				
LOCAL INDICATOR	LCD type				
INDICATION RANGE	0/+3000 mmH2O				
ZERO ELEV./SUPP. RANGE	Std.Mfr.				
MANIFOLD	Not requested				
OVAL FLANGES	For low side				
GASKETS	not required				
BOLTS AND NUTS MAT.	AISI 316 st. st.				
<b>REMARKS</b>					
Label made by st.st. AISI 316 with the Tag. to be fixed in visible position					

MANUFACTURER

MODEL

0	Issue for order	M.MEHD.	M.KHOD.	SEP..2016
Rev.	Description	Drawn.	Checked.	Date

NIROU CHLOR COMPANY



**INSTRUMENT  
DATA SHEET  
FLOW TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-SP-121
DATE MAY.2020	Sh. 5 of 12

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Smart flow transmitter	P&ID N°	12-AM-1003/730
SERVICE	Dry chlorine gas to R 1221N	Tag.	FT-120301
LOCATION	Line: 40-CA62-534	Q.ty	1

**OPERATING CONDITION**

FLUID	Dry chlorine gas
PRESSURE	2 barg
TEMPERATURE	35 °C
DENSITY	6.4 kg/m <sup>3</sup>
VISCOSITY	0.0149 cps
LEVEL HEIGHT	
SEALING FLUID	
STATIC PRESSURE	

**MEASURING ELEMENT**

TYPE / MATERIAL	Diaphragm/Hastealloy C
WETTED PART MATERIAL	AISI 316 st. st.
RANGE	18.5 / 280 mbar
OVERPRESSURE	160 bar
LIMITS OF ERROR	+/-0.1% of the range
CALIBRATION	0:1000 mmwg
CONNECTIONS	
HP	1/2" NPT-F
LP	1/2" NPT-F
INSTRUMENT AIR	
ELECTRICALS	Cable gland M20x1,5

**INSTRUMENT**

INSTRUMENT	Differential pressure transmitter
TYPE	Smart
BODY MATERIAL	AISI 316 st. st.
ELECT. CLASS./PROTEC.	Tropicalized/IP 67
SCALE	0:100% linear (LCD type)
ACTION	Direct
DIFFERENTIAL	
OUTPUT	4-20 mA dc
OUTPUT LOAD	
SUPPLY	24V-dc

**ACCESSORIES**

ALARMS	
AIR FILTER REGULATOR	
ZERO ELEV./SUPP. RANGE	
MOUNTING YOKE	Required
LOCAL INDICATOR	Required
CAPILLARY	

**REMARKS**

MANUFACTURER  
MODEL

1	Issue for order	M.ARA.	M.MOR.	MAY.2020
Rev.	Description	Drawn.	Checked.	Date



INSTRUMENT  
DATA SHEET  
FLOW TRANSMITTER

PROJECT:	750 NEI
SPC. No.	750-SP-121
DATE MAY.2020	Sh. 6 of 12

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Smart flow transmitter	P&ID N°	12-AM-1003/730
SERVICE	Dry chlorine gas to R 1222N	Tag.	FT-120302
LOCATION	Line: 40-CA62-535	Q.ty	1

**OPERATING CONDITION**

FLUID	Dry chlorine gas
PRESSURE	2 barg
TEMPERATURE	35 °C
DENSITY	6.4 kg/m³
VISCOSITY	0.0149 cps
LEVEL HEIGHT	
SEALING FLUID	
STATIC PRESSURE	

**MEASURING ELEMENT**

TYPE / MATERIAL	Diaphragm/Hastealloy C
WETTED PART MATTERIAL	AISI 316 st. st.
RANGE	18.5 / 280 mbar
OVERPRESSURE	160 bar
LIMITS OF ERROR	+/-0.1% of the range
CALIBRATION	0:1000 mmwg
CONNECTIONS	
HP	1/2" NPT-F
LP	1/2" NPT-F
INSTRUMENT AIR	
ELECTRICALS	Cable gland M20x1,5

**INSTRUMENT**

INSTRUMENT	Differential pressure transmitter
TYPE	Smart
BODY MATERIAL	AISI 316 st. st.
ELECT. CLASS./PROTEC.	Tropicalized/IP 67
SCALE	0:100% linear (LCD type)
ACTION	Direct
DIFFERENTIAL	
OUTPUT	4-20 mA dc
OUTPUT LOAD	
SUPPLY	24V-dc

**ACCESSORIES**

ALARMS	
AIR FILTER REGULATOR	
ZERO ELEV./SUPP. RANGE	
MOUNTING YOKE	Required
LOCAL INDICATOR	Required
CAPILLARY	

**REMARKS**

MANUFACTURER  
MODEL

1	Issue for order	M.ARA.	M.MOR.	MAY.2020
Rev.	Description	Drawn.	Checked.	Date



INSTRUMENT  
DATA SHEET  
FLOW TRANSMITTER

PROJECT:	<b>750 NEI</b>
SPC. No.	750-SP-121
DATE MAY.2020	Sh. 7 of 12

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Smart flow transmitter	P&ID N°	12-AM-1003/730
SERVICE	Dry chlorine gas to R 1223N	Tag.	FT-120303
LOCATION	Line: 40-CA62-536	Q.ty	1

**OPERATING CONDITION**

FLUID	Dry chlorine gas
PRESSURE	2 barg
TEMPERATURE	35 °C
DENSITY	6.4 kg/m <sup>3</sup>
VISCOSITY	0.0149 cps
LEVEL HEIGHT	
SEALING FLUID	
STATIC PRESSURE	

**MEASURING ELEMENT**

TYPE / MATERIAL	Diaphragm/Hastealloy C
WETTED PART MATTERIAL	AISI 316 st. st.
RANGE	18.5 / 280 mbar
OVERPRESSURE	160 bar
LIMITS OF ERROR	+/-0.1% of the range
CALIBRATION	0:1000 mmwg
CONNECTIONS	
HP	1/2" NPT-F
LP	1/2" NPT-F
INSTRUMENT AIR	
ELECTRICALS	Cable gland M20x1,5

**INSTRUMENT**

INSTRUMENT	Differential pressure transmitter
TYPE	Smart
BODY MATERIAL	AISI 316 st. st.
ELECT. CLASS./PROTEC.	Tropicalized/IP 67
SCALE	0:100% linear (LCD type)
ACTION	Direct
DIFFERENTIAL	
OUTPUT	4-20 mA dc
OUTPUT LOAD	
SUPPLY	24V-dc

**ACCESSORIES**

ALARMS	
AIR FILTER REGULATOR	
ZERO ELEV./SUPP. RANGE	
MOUNTING YOKE	Required
LOCAL INDICATOR	Required
CAPILLARY	

**REMARKS**

MANUFACTURER  
MODEL

1	Issue for order	M.ARA.	M.MOR.	MAY.2020
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
LEVEL TRANSMITTER**

PROJECT:	<b>750NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 1 of 7

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Level transmitter	Tag.	LT-0201501
SERVICE		Q.ty	1
LOCATION	ON TANK D201N	P&ID N°	2-AM-1001/750

**OPERATING CONDITIONS**

FLUID	NAOH 33%
PRESSURE	+100 mmWG
DESIGN PRESSURE	±500 mmWG
TEMPERATURE	86 °C
DENSITY	1317 Kg/m <sup>3</sup>
VISCOSITY	2.28 Cp
LEVEL HEIGHT	1410 mm

**INSTRUMENTS**

TYPE	Level transmitter flanged connection
CONSTRUCTION	IP67
CERTIFICATE	General purpose
ACCURACY	+/-0,15% of the range
RANGE	std. mfr.
CALIBRATION	0 ~ 1410 mmH2O
STATIC PRESSURE	std. mfr.
BODY MATERIAL	AISI 316 st.st.
WETTED PART	See seal
FILLING FLUID	Silicon oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	1/2" NPT-F with oval flang St.St.316L
ELECTRICAL CONNECTION	2 x 1/2" NPT-F
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4±20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316	
DIAPHRAGM MATERIAL	HASTELLOY C	
CONNECTION TYPE / RATING	Flanged, DN 80, PN16	
CAPILLARY MATERIAL / LENGHT	Not requested	

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ~ 100 %
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	Not requested
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position  
 Procedure for chlorine service is requested

MANUFACTURER  
 MODEL APT3100-LFD-4-S3-D1-H-2-SS-N-1-K0-M1

0	Issue for order	M.MEHD.	M.KHODA.	SEP.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
LEVEL TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 3 of 7

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Level transmitter	Tag.	LT-0201560
SERVICE	Catholyte head tank	Q.ty	1
LOCATION	ON TANK D220N	P&ID N°	2-AM-1001/750

**OPERATING CONDITIONS**

FLUID	Caustic soda 33%
PRESSURE	Atm.
DESIGN PRESSURE	Atm.
TEMPERATURE	90 °C
DENSITY	1314 Kg/m <sup>3</sup>
VISCOSITY	2.03 Cp
LEVEL HEIGHT	1960 mm

**INSTRUMENTS**

TYPE	Level transmitter flanged connection
CONSTRUCTION	IP67
CERTIFICATE	General purpose
ACCURACY	+/-0,15% of the range
RANGE	std mfr.
CALIBRATION	0 ÷ 1960 mmwc
STATIC PRESSURE	std mfr.
BODY MATERIAL	AISI 316 st.st.
WETTED PART	SEE SEAL
FILLING FLUID	Silicon oil
HP CONNECTION TYPE / RATING	SEE SEAL
LP CONNECTION TYPE / RATING	SEE SEAL
ELECTRICAL CONNECTION	M20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 St.St.	AISI 316 St.St.
DIAPHRAGM MATERIAL	HASTELLOY C	HASTELLOY C
CONNECTION TYPE / RATING	FLANGED ,DN80,PN16	1/2" NPT-F with oval flang
CAPILLARY MATERIAL / LENGHT	NONE	NONE

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ÷ 100 %
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For LP side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER  
MODEL APT3100-LFD-4-S3-D1-H-2-SS-N-X-K0-M1

0	Issue for order	M.MEHD.	M.KHOD.	SEP.2016
Rev.	Description	Drawn.	Checked.	Date





**INSTRUMENT  
DATA SHEET  
LEVEL TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 4 of 7

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Level transmitter	Tag.	LT-0501501
SERVICE		Q.ty	1
LOCATION	ON TANK D501N	P&ID N°	5-AM-1001/750

**OPERATING CONDITIONS**

FLUID	Depleted brine with chlorine
PRESSURE	-150 mmWG
DESIGN PRESSURE	Atm.
TEMPERATURE	85 °C
DENSITY	1115 Kg/m <sup>3</sup>
VISCOSITY	0.54 Cp
LEVEL HEIGHT	1410 mm

**INSTRUMENTS**

TYPE	Level transmitter flanged connection
CONSTRUCTION	IP67
CERTIFICATE	General purpose
ACCURACY	+/-0,15% of the range
RANGE	STANDARD MANUFACTURER mmwc
CALIBRATION	0 ÷ 1410 mmwc
STATIC PRESSURE	std. mfr.
BODY MATERIAL	AISI 316 st.st.
WETTED PART	See seal
FILLING FLUID	Silicon oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	See seal
ELECTRICAL CONNECTION	M20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 St.St.	Hastelloy C
DIAPHRAGM MATERIAL	TANTALUM	Tantalum
CONNECTION TYPE / RATING	FLANGED ,DN80,PN16	1/2" NPT-F with oval flang
CAPILLARY MATERIAL / LENGHT	NONE	NONE

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ÷ 100 %
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For LP side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER  
MODEL APT3500-LFD-3-S3-D1-T-2-SS-N-X-K0-M1-X

0	Issue for order	M.MEHD.	M.KHOD.	SEP.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
LEVEL TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 2 of 7

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Level transmitter	Tag.	LT-0502501
SERVICE		Q.ty	1
LOCATION	ON TANK D502N	P&ID N°	5-AM-1002/750

**OPERATING CONDITIONS**

FLUID	Dechlorinated brine
PRESSURE	-150 mmWG
DESIGN PRESSURE	Atm.
TEMPERATURE	78 °C
DENSITY	1115 Kg/m <sup>3</sup>
VISCOSITY	0.57 Cp
LEVEL HEIGHT	1710 mm

**INSTRUMENTS**

TYPE	Level transmitter flanged connection
CONSTRUCTION	IP67
CERTIFICATE	General purpose
ACCURACY	+/-0,15% of the range
RANGE	std mfr.
CALIBRATION	0 ÷ 1710 mmwc
STATIC PRESSURE	std mfr.
BODY MATERIAL	AISI 316 st.st.
WETTED PART	See seal
FILLING FLUID	Silicon oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	See seal
ELECTRICAL CONNECTION	M20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 St.St.	AISI 316 St.St.
DIAPHRAGM MATERIAL	TANTALUM	Hastelloy C
CONNECTION TYPE / RATING	FLANGED ,DN80,PN16	1/2" NPT-F with oval flang
CAPILLARY MATERIAL / LENGHT	NONE	NONE

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ÷ 100 %
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For LP side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER  
MODEL APT3100-LFD-4-S3-D1-X-2-SS-N-X-K0-M1

0	Issue for order	M.MEHD.	M.KHOD.	SEP.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
LEVEL TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 5 of 7

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Level transmitter	Tag.	LT-0509558
SERVICE	Pure brine tank	Q.ty	1
LOCATION	On tank D519N	P&ID N°	5-AM-1009/750

**OPERATING CONDITIONS**

FLUID	Pure brine
PRESSURE	Atm.
DESIGN PRESSURE	Atm.
TEMPERATURE OP / MAX	72 °C
DENSITY	1177 Kg/m <sup>3</sup>
VISCOSITY	0.89 cP
LEVEL HEIGHT	1610 mm

**INSTRUMENTS**

TYPE	Level transmitter flanged connection
CONSTRUCTION	IP67 / IEC529
CERTIFICATE	General purpose
ACCURACY	+/-0,15% of the range
RANGE	std. mfr.
CALIBRATION	0 ÷ 1610 mmwc
STATIC PRESSURE	std. mfr.
BODY MATERIAL	AISI 316 st.st.
WETTED PART	See seal
FILLING FLUID	Silicon oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	See seal
ELECTRICAL CONNECTION	M20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 St.St.	AISI 316 St.St.
DIAPHRAGM MATERIAL	TANTALUM	AISI 316 St.St.
CONNECTION TYPE / RATING	FLANGED ,DN80,PN16	1/2" NPT-F with oval flang
CAPILLARY MATERIAL / LENGHT	NONE	NONE

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ÷ 100 %
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For LP side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER  
MODEL APT3100-LFD-4-S3-D1-T-2-SS-N-X-K0-M1

1	Issue for order	M.MEHD.	M.KHODA.	JAN.2017
Rev.	Description	Drawn.	Checked.	Date

		<b>INSTRUMENT DATA SHEET PRESSURE TRANSMITTER</b>		PROJECT: <b>750 NEI</b>	
				SPC. No. 750-FB-3080	
				DATE SEP.2016	Sh.
PLANT		MEMBRANE CHLORINE CAUSTIC SODA			
DESCRIPTION	Pressure transmitter	Tag.	LT-0903509		
SERVICE	HCL	Q.ty	1		
LOCATION		P&ID N°			
<b>OPERATING CONDITIONS</b>					
FLUID	HCL 33%				
PRESSURE	0.3 bar g.				
DESIGN PRESSURE	bar g.				
TEMPERATURE	25 °C				
DENSITY	1163 Kg/m <sup>3</sup>				
VISCOSITY	1.68 CP				
<b>INSTRUMENTS</b>					
TYPE	Pressure transmitter				
CONSTRUCTION	IP67 /IEC529				
CERTIFICATE	General purpose				
ACCURACY	+/-0.1 % of the range				
RANGE	std mfr.				
CALIBRATION	0/+7000 mmH2O				
STATIC PRESSURE	std mfr.				
BODY MATERIAL	AISI 316 st.st.				
WETTED PART	See seal				
HP CONNECTION TYPE / RATING	See seal				
LP CONNECTION TYPE / RATING	1/2" NPT-F				
ELECTRICAL CONNECTION	1/2 NPT-F				
POWER SUPPLY	24 Vdc				
OUTPUT SIGNAL	4*20 mA DC with digital communication HART protocol				
<b>SEAL</b>					
	HP SIDE	LP SIDE			
BODY MATERIAL	AISI 316 st.st.				
DIAPHRAGM MATERIAL	Tantalum				
CONNECTION TYPE / RATING	Flange , DN80 ,ND 16, St.St 316				
CAPILLARY MATERIAL / LENGHT	not required				
FILLING FLUID	Silicone Oil				
<b>ACCESSORIES</b>					
MOUNTING YOKE	Mounting bracket for 2-inches pipe				
LOCAL INDICATOR	LCD type				
INDICATION RANGE	0/+3000 mmH2O				
ZERO ELEV./SUPP. RANGE	Std.Mfr.				
MANIFOLD	Not requested				
OVAL FLANGES	For low side				
GASKETS	not required				
BOLTS AND NUTS MAT.	AISI 316 st. st.				
<b>REMARKS</b>					
Label made by st.st. AISI 316 with the Tag. to be fixed in visible position					

MANUFACTURER

MODEL

0	Issue for order	M.MEHD.	M.KHOD.	SEP..2016
Rev.	Description	Drawn.	Checked.	Date

NIROU CHLOR COMPANY

PLANT MEMBRANE CHLORINE CAUSTIC SODA  
NAME Smart level transmitter  
SUPPLIED BY DNP

UNIT 30 ITEM LT-121101  
QUANTITY 1  
REF.DWG. 12-AM-1011

OPERATING CONDITIONS:

FLUID Caustic soda  
PRESSURE Atm  
TEMPERATURE 35 ° C  
DENSITY 1470 kg/m<sup>3</sup>  
VISCOSITY 25.7 cps  
LEVEL HEIGHT 2700 mmWG (D-1220)  
SEALING FLUID  
STATIC PRESSURE

MEASURING ELEMENT

TYPE/MATERIAL Diaphragm/Hastelloy-C  
WETTED PART MATERIAL Hastelloy-C  
RANGE 47:700 mbar  
OVERPRESSURE 16 bar  
LIMITS OF ERROR +/-0.1% of the range  
CALIBRATION 0:3970 mmWG

CONNECTIONS

HP NW 80 DIN ND 16  
LP 1/2" NPT-F  
INSTRUMENT AIR  
ELECTRICALS 1/2" NPT-F

INSTRUMENT

TYPE D.P. level transmitter flanged connection  
Smart  
BODY MATERIAL AISI 316 st. st.  
ELECT. CLASS./PROTEC. Tropicalized/IP 67  
SCALE 0:100% ( LCD type )  
ACTION Direct  
DIFFERENTIAL  
OUTPUT 4-20 mA dc  
OUTPUT LOAD  
SUPPLY 24V-dc

ACCESSORIES

ALARMS  
AIR FILTER REGULATOR  
ZERO ELEV./SUPP. RANGE Zero elevation device  
MOUNTING YOKE  
LOCAL INDICATOR Required  
CAPILLARY

CODE XTHC9CGEK8 6I1

REMARKS



**INSTRUMENT  
DATA SHEET  
LEVEL TRANSMITTER**

**PROJECT: 750 NEI**  
**SPC. No. 750-FB-3080**  
**DATE SEP.2016 Sh. 6 of 7**

**PLANT Chlorine Caustic Soda Plant**

**DESCRIPTION** Level transmitter **Tag.** LT-1301502,LT-1301503,LT-1301504  
**SERVICE** Catholyte head tank **Q.ty** 3  
**LOCATION** ON TK1301NA, TK1301NB, TK1301NC, **P&ID N°** 13-AM-1001/750

**OPERATING CONDITIONS**

**FLUID** Caustic soda 50%  
**PRESSURE** Atm.  
**DESIGN PRESSURE** Atm.  
**TEMPERATURE** 40 °C  
**DENSITY** 1500 Kg/m<sup>3</sup>  
**VISCOSITY** 2.03 Cp  
**LEVEL HEIGHT** 6010 mm

**INSTRUMENTS**

**TYPE** Level transmitter flanged connection  
**CONSTRUCTION** IP67  
**CERTIFICATE** General purpose  
**ACCURACY** +/-0,15% of the range  
**RANGE** std mfr.  
**CALIBRATION** 0 ÷ 6010 mmWC  
**STATIC PRESSURE** std mfr.  
**BODY MATERIAL** AISI 316 st.st.  
**WETTED PART** SEE SEAL  
**FILLING FLUID** Silicon oil  
**HP CONNECTION TYPE / RATING** See seal  
**LP CONNECTION TYPE / RATING** 1/2" NPT-F with oval flang St.St.316L  
**ELECTRICAL CONNECTION** 2 x 1/2" NPT-F  
**POWER SUPPLY** 24 Vdc  
**OUTPUT SIGNAL** 4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316	
DIAPHRAGM MATERIAL	HASTELLOY C	
CONNECTION TYPE / RATING	Flanged, DN 80, PN16	
CAPILLARY MATERIAL / LENGHT	Not requested	

**ACCESSORIES**

**MOUNTING YOKE** Not requested  
**LOCAL INDICATOR** LCD type  
**INDICATION RANGE** 0 ~ 100 %  
**ZERO ELEV./SUPP. RANGE** Std. Mfr.  
**MANIFOLD** Not requested  
**OVAL FLANGES** Not requested  
**GASKETS** PTFE  
**BOLTS AND NUTS MAT.** AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

**MODEL** APT3100-LFD-5-S3-D1-H-2-SS-N-1-K0-M1

0	Issue for order	M.MEHD.	M.KHOD.	SEP.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
TRANSMITTER**

**PROJECT: 750 NEI**  
**SPC. No. 750-FB-3080P**  
**DATE SEP.2016 Sh. 2 of 5**

**PLANT Chlorine Caustic Soda Plant**

<b>DESCRIPTION</b>	Level transmitter	<b>Tag.</b>	LT-5202
<b>SERVICE</b>		<b>Q.ty</b>	1
<b>LOCATION</b>	D1304N	<b>P&amp;ID N°</b>	D281403/750

**OPERATING CONDITIONS**

<b>FLUID</b>	Steam condensate
<b>PRESSURE</b>	8 barg
<b>DESIGN PRESSURE</b>	10 barg
<b>TEMPERATURE</b>	175 °C
<b>DENSITY</b>	902 Kg/m <sup>3</sup>
<b>VISCOSITY</b>	0.2 Cp
<b>LEVEL HEIGHT</b>	- mm

**INSTRUMENTS**

<b>TYPE</b>	Level transmitter flanged connection		
<b>CONSTRUCTION</b>	IP67		
<b>CERTIFICATE</b>	General purpose		
<b>ACCURACY</b>	+/-0,15% of the range		
<b>RANGE</b>	std. mfr.		mmwc
<b>CALIBRATION</b>	500 ÷ 1700	mmwc	
<b>STATIC PRESSURE</b>	std. mfr.		
<b>BODY MATERIAL</b>	AISI 316 st.st.		
<b>WETTED PART</b>	Hastelloy C		
<b>FILLING FLUID</b>	Silicon oil		
<b>HP CONNECTION TYPE / RATING</b>	1/2" NPT		
<b>LP CONNECTION TYPE / RATING</b>	1/2" NPT		
<b>ELECTRICAL CONNECTION</b>	M20*1.5		
<b>POWER SUPPLY</b>	24 Vdc		
<b>OUTPUT SIGNAL</b>	4÷20 mA DC with digital communication HART protocol		

**SEAL**

<b>BODY MATERIAL</b>
<b>DIAPHRAGM MATERIAL</b>
<b>CONNECTION TYPE / RATING</b>
<b>CAPILLARY MATERIAL / LENGHT</b>

**ACCESSORIES**

<b>MOUNTING YOKE</b>	Requested
<b>LOCAL INDICATOR</b>	LCD type
<b>INDICATION RANGE</b>	0 ÷ 100 %
<b>ZERO ELEV./SUPP. RANGE</b>	Std. Mfr.
<b>MANIFOLD</b>	-
<b>OVAL FLANGES</b>	For two side
<b>GASKETS</b>	PTFE
<b>BOLTS AND NUTS MAT.</b>	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

1	Issue for order	M.MEHD.	M.KHOD.	JAN.2017
Rev.	Description	Drawn.	Checked.	Date





**INSTRUMENT  
DATA SHEET  
TRANSMITTER**

**PROJECT: 750 NEI**  
**SPC. No. 750-FB-3080P**  
**DATE SEP.2016 Sh. 5 of 5**

**PLANT Chlorine Caustic Soda Plant**

<b>DESCRIPTION</b>	Level transmitter	<b>Tag.</b>	LT-5204
<b>SERVICE</b>		<b>Q.ty</b>	1
<b>LOCATION</b>	D1723B	<b>P&amp;ID N°</b>	D281403/750

**OPERATING CONDITIONS**

<b>FLUID</b>	cooling water
<b>PRESSURE</b>	Atm.
<b>DESIGN PRESSURE</b>	0.3 bar g
<b>TEMPERATURE</b>	38 °C
<b>DENSITY</b>	993 Kg/m <sup>3</sup>
<b>VISCOSITY</b>	0.68 Cp
<b>LEVEL HEIGHT</b>	- mm

**INSTRUMENTS**

<b>TYPE</b>	Level transmitter flanged connection
<b>CONSTRUCTION</b>	IP67
<b>CERTIFICATE</b>	General purpose
<b>ACCURACY</b>	+/-0,15% of the range
<b>RANGE</b>	STANDARD MANUFACTURER
<b>CALIBRATION</b>	0 ÷ 2700 mmwc
<b>STATIC PRESSURE</b>	std. mfr.
<b>BODY MATERIAL</b>	AISI 316 st.st.
<b>WETTED PART</b>	AISI 316 st.st.
<b>FILLING FLUID</b>	Silicon oil
<b>HP CONNECTION TYPE / RATING</b>	SEE SEAL
<b>LP CONNECTION TYPE / RATING</b>	1/2" NPT
<b>ELECTRICAL CONNECTION</b>	M20*1.5
<b>POWER SUPPLY</b>	24 Vdc
<b>OUTPUT SIGNAL</b>	4÷20 mA DC with digital communication HART protocol

**SEAL**

<b>BODY MATERIAL</b>	AISI 316 St.St.
<b>DIAPHRAGM MATERIAL</b>	AISI 316 St.St.
<b>CONNECTION TYPE / RATING</b>	FLANGED ,DN80,PN16
<b>CAPILLARY MATERIAL / LENGHT</b>	NONE

**ACCESSORIES**

<b>MOUNTING YOKE</b>	Not requested
<b>LOCAL INDICATOR</b>	LCD type
<b>INDICATION RANGE</b>	0 ÷ 100 %
<b>ZERO ELEV./SUPP. RANGE</b>	Std. Mfr.
<b>MANIFOLD</b>	Not requested
<b>OVAL FLANGES</b>	For low side
<b>GASKETS</b>	PTFE
<b>BOLTS AND NUTS MAT.</b>	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

1	Issue for order	M.MEHD.	M.KHOD.	JAN.2017
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
TRANSMITTER**

**PROJECT: 750 NEI**  
**SPC. No. 750-FB-3080P**  
**DATE SEP.2016 Sh. 3 of 5**

**PLANT Chlorine Caustic Soda Plant**

**DESCRIPTION Level transmitter Tag. LT-5209**  
**SERVICE Q.ty 1**  
**LOCATION D1305 A P&ID N° D281403/750**

**OPERATING CONDITIONS**

**FLUID NaOH 50%**  
**PRESSURE Atm.**  
**DESIGN PRESSURE 1 bar**  
**TEMPERATURE 110 °C**  
**DENSITY 1468 Kg/m<sup>3</sup>**  
**VISCOSITY 2.5 Cp**  
**LEVEL HEIGHT 750 mm**

**INSTRUMENTS**

**TYPE Level transmitter flanged connection**  
**CONSTRUCTION IP67**  
**CERTIFICATE General purpose**  
**ACCURACY +/-0,15% of the range**  
**RANGE std. mfr.**  
**CALIBRATION 0 ÷ 1160 mmwc**  
**STATIC PRESSURE std. mfr.**  
**BODY MATERIAL AISI 316 st.st.**  
**WETTED PART Hastelloy C**  
**FILLING FLUID Silicon oil**  
**HP CONNECTION TYPE / RATING SEE SEAL**  
**LP CONNECTION TYPE / RATING 1/2" NPT**  
**ELECTRICAL CONNECTION M20\*1.5**  
**POWER SUPPLY 24 Vdc**  
**OUTPUT SIGNAL 4÷20 mA DC with digital communication HART protocol**

**SEAL**

**BODY MATERIAL AISI 316 St.St.**  
**DIAPHRAGM MATERIAL HASTELLOY C**  
**CONNECTION TYPE / RATING FLANGED ,DN50,PN16**  
**CAPILLARY MATERIAL / LENGHT NONE**

**ACCESSORIES**

**MOUNTING YOKE Not requested**  
**LOCAL INDICATOR LCD type**  
**INDICATION RANGE 0 ÷ 100 %**  
**ZERO ELEV./SUPP. RANGE Std. Mfr.**  
**MANIFOLD Not requested**  
**OVAL FLANGES For low side**  
**GASKETS PTFE**  
**BOLTS AND NUTS MAT. AISI 316 st. st.**

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

1	Issue for order	M.MEHD.	M.KHOD.	JAN.2017
Rev.	Description	Drawn.	Checked.	Date



INSTRUMENT  
DATA SHEET  
TRANSMITTER

PROJECT: **750 NEI**  
SPC. No. 750-FB-3080P  
DATE SEP.2016 Sh. 4 of 5

PLANT Chlorine Caustic Soda Plant

DESCRIPTION Level transmitter Tag. LT-5203  
SERVICE Q.ty 1  
LOCATION D1305 B P&ID N° D281403/750

OPERATING CONDITIONS

FLUID NaOH 65%  
PRESSURE Atm.  
DESIGN PRESSURE 1 bar  
TEMPERATURE 120 °C  
DENSITY 1590 Kg/m<sup>3</sup>  
VISCOSITY 3.4 Cp  
LEVEL HEIGHT 750 mm

INSTRUMENTS

TYPE Level transmitter flanged connection  
CONSTRUCTION IP67  
CERTIFICATE General purpose  
ACCURACY +/-0,15% of the range  
RANGE std. mfr.  
CALIBRATION 0 ÷ 1160 mmwc  
STATIC PRESSURE std. mfr.  
BODY MATERIAL AISI 316 st.st.  
WETTED PART Hastelloy C  
FILLING FLUID Silicon oil  
HP CONNECTION TYPE / RATING SEE SEAL  
LP CONNECTION TYPE / RATING 1/2" NPT  
ELECTRICAL CONNECTION M20\*1.5  
POWER SUPPLY 24 Vdc  
OUTPUT SIGNAL 4÷20 mA DC with digital communication HART protocol

SEAL

BODY MATERIAL AISI 316 St.St.  
DIAPHRAGM MATERIAL HASTELLOY C  
CONNECTION TYPE / RATING FLANGED ,DN50,PN16  
CAPILLARY MATERIAL / LENGHT NONE

ACCESSORIES

MOUNTING YOKE Not requested  
LOCAL INDICATOR LCD type  
INDICATION RANGE 0 ÷ 100 %  
ZERO ELEV./SUPP. RANGE Std. Mfr.  
MANIFOLD Not requested  
OVAL FLANGES For low side  
GASKETS PTFE  
BOLTS AND NUTS MAT. AISI 316 st. st.

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER

1	Issue for order	M.MEHD.	M.KHOD.	JAN.2017
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

PROJECT: **750NEI**  
 SPC. No. 750-FB-3080  
 DATE AUG.2016 Sh. 7 of 11

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-0101553
SERVICE	Anolyte outlet electrolyzer	Q.ty	1
LOCATION	Line: 400-CX83-12294	P&ID N°	1-AM-1001/750

**OPERATING CONDITIONS**

FLUID	wet chlorine+Anolyte		
PRESSURE	0.28 bar g. (ope.)	0.4 bar g. (max.)	
MAX. PRESSURE	bar g		
TEMPERATURE	88 °C ope.	92 °C max.	
DENSITY	1.57 Kg/m <sup>3</sup>		
VISCOSITY	0.014 Cp		

**INSTRUMENTS**

TYPE	Pressure transmitter with integral seal
CONSTRUCTION	IP67
CERTIFICATE	ATEX EEx-ia IIC T4/T5
ACCURACY	+/-0.1% of the range
RANGE	Std. Mfr.
CALIBRATION	-20 ÷ 400 mbar g
STATIC PRESSURE	Std. Mfr.
BODY MATERIAL	AISI 316L st.st.
WETTED PART	See seal
FILLING FLUID	Fluorinated oil (1)
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	
ELECTRICAL CONNECTION	cable gland ,m20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA SMART / HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316L	
DIAPHRAGM MATERIAL	Tantalum	
CONNECTION TYPE / RATING	Flanged, DN 80 , PN16	
CAPILLARY MATERIAL / LENGHT	Not requested	
FILLING FLUID	INERT FLUID (1)	

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	-20 ÷ 400 mbar g
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	Not requested
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position  
 Procedure for chlorine service is requested  
 (1) inert filling fluid & degrease/dehydrating treatment for chlorine service.

**MANUFACTURER**

**MODEL**

1	Issue for order	M.MEHD.	M.KHODA.	AUG.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

**PROJECT: 750 NEI**  
**SPC. No. 750-FB-3080**  
**DATE AUG.2016 Sh. 8 of 11**

**PLANT Chlorine Caustic Soda Plant**

DESCRIPTION	Pressure transmitter	Tag.	PT-0101554
SERVICE	Catholyte outlet from electrolyzer	Q.ty	1
LOCATION	Line :400-CW41-12315	P&ID N°	1-AM-1001/750

**OPERATING CONDITIONS**

FLUID	wet hydrogen+catholyte		
PRESSURE	0.3 bar g. (op)	0.4 bar g	max.
DESIGN PRESSURE	bar g.		
TEMPERATURE	88 °C (op)	92°C	max.
DENSITY	0.25 Kg/m <sup>3</sup>		
VISCOSITY	0.011 cP		

**INSTRUMENTS**

TYPE	Pressure transmitter
CONSTRUCTION	IP67
CERTIFICATE	ATEX EEx-ia IIC T4/T5
ACCURACY	+/-0.1% of the range
RANGE	std mfr.
CALIBRATION	-20 ÷ 400 mbarg
STATIC PRESSURE	std mfr.
BODY MATERIAL	AISI 316L st.st.
WETTED PART	See seal
FILLING FLUID	Silicon oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	.
ELECTRICAL CONNECTION	cable glang , m20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA SMART / HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316L st.st.	
DIAPHRAGM MATERIAL	Hastelloy C	
CONNECTION TYPE / RATING	Flange , DN80 , DIN PN16	
CAPILLARY MATERIAL / LENGHT	not required	
FILLING FLUID	silicon oil	

**ACCESSORIES**

MOUNTING YOKE	Not requested
LOCAL INDICATOR	LCD type
INDICATION RANGE	-20 ÷ 400 mbarg
ZERO ELEV./SUPP. RANGE	Std.Mfr.
MANIFOLD	Not requested
OVAL FLANGES	Not requested
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

**MODEL**

1	Issue for order	M.MEHD.	M.KHOD.	AUG.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE	AUG.2016
Sh.	3 of 11

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-0103553
SERVICE	Hydrogen from electrolyzer	Q.ty	1
LOCATION	Line :350-CA71-12247	P&ID N°	1-AM-1003/750

**OPERATING CONDITIONS**

FLUID	Wet hydrogen gas		
PRESSURE	0.3 bar g. (op)	0.36 bar g max.	0.4 bar g des.
DESIGN PRESSURE	bar g.		
TEMPERATURE	88 °C (op)	92°C max.	
DENSITY	0.25 Kg/m <sup>3</sup>		
VISCOSITY	0.011 cP		

**INSTRUMENTS**

TYPE	Pressure transmitter with integral seal		
CONSTRUCTION	IP67		
CERTIFICATE	ATEX EEx-ia IIC T4/T5		
ACCURACY	+/-0.1% of the range		
RANGE	std mfr.		
CALIBRATION	0 ÷ 400	mbarg	
STATIC PRESSURE	std mfr.		
BODY MATERIAL	AISI 316 st.st.		
WETTED PART	see seal		
FILLING FLUID	Silicon oil		
HP CONNECTION TYPE / RATING	see seal		
LP CONNECTION TYPE / RATING	.		
ELECTRICAL CONNECTION	cable glang ,m20*1.5		
POWER SUPPLY	24 Vdc		
OUTPUT SIGNAL	4÷20 mA SMART / HART protocol		

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316	
DIAPHRAGM MATERIAL	Hastelloy C	
CONNECTION TYPE / RATING	flanged, DN80, UNI EN 1092-1 , PN10 , TYPE B1(R.F.)	
CAPILLARY MATERIAL / LENGHT	not required	
FILLING FLUID	silicon oil	

**ACCESSORIES**

MOUNTING YOKE	not required
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ÷ 400 mbarg
ZERO ELEV./SUPP. RANGE	Std.Mfr.
MANIFOLD	Not requested
OVAL FLANGES	Not requested
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

MODEL

1	Issue for order	M.MEHD.	M.KHOD.	AUG.2016
Rev.	Description	Drawn.	Checked.	Date

		INSTRUMENT		PROJECT: <b>750 NEI</b>	
		DATA SHEET		SPC. No. 750-FB-3080	
		PRESSURE TRANSMITTER		DATE SEP.2016	Sh. 1
PLANT		MEMBRANE CHLORINE CAUSTIC SODA			
DESCRIPTION	Pressure transmitter	Tag.	PT-01A&PT-01B		
SERVICE	BRINE FILTRATION	Q.ty	1		
LOCATION	ON F527N A	P&ID N°	5-AM-1005/750		
<b>OPERATING CONDITIONS</b>					
FLUID	BRINE				
PRESSURE	0.0 bar g.(OP)	6	bar g.(max)		
DESIGN PRESSURE	bar g.				
TEMPERATURE	20 °C				
DENSITY	1.17 Kg/m <sup>3</sup>				
VISCOSITY	0.4 CP				
<b>INSTRUMENTS</b>					
TYPE	Pressure transmitter				
CONSTRUCTION	IP67				
CERTIFICATE	General purpose				
ACCURACY	+/-0.15 % of the range				
RANGE	std mfr.				
CALIBRATION	0 /8	Barg			
STATIC PRESSURE	std mfr.				
BODY MATERIAL	AISI 316 st.st.				
WETTED PART	See seal				
FILLING FLUID	fluorinated oil				
HP CONNECTION TYPE / RATING	See seal				
LP CONNECTION TYPE / RATING	not requested				
ELECTRICAL CONNECTION	cable gland, m20*1.5				
POWER SUPPLY	24 Vdc				
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol				
<b>SEAL</b>					
	HP SIDE	LP SIDE			
BODY MATERIAL	AISI 316				
DIAPHRAGM MATERIAL	Tantalum				
CONNECTION TYPE / RATING	Flange , DN80 ,PN 16				
CAPILLARY MATERIAL / LENGHT	not required				
FILLING FLUID	INERT FLUID (1)				
<b>ACCESSORIES</b>					
MOUNTING YOKE	not required				
LOCAL INDICATOR	LCD type				
INDICATION RANGE	0/8	Barg			
ZERO ELEV./SUPP. RANGE	Std.Mfr.				
MANIFOLD	Not requested				
OVAL FLANGES	Not requested				
GASKETS	not required				
BOLTS AND NUTS MAT.	AISI 316 st. st.				
<b>REMARKS</b>					
Label made by st.st. AISI 316 with the Tag. to be fixed in visible position					

procedure for chlorine service is requested				
(1) inter filling fluid and degrease /dehydrating treatment for chlorine srvice.				
MANUFACTURER		AUTROL		
MODEL		APT3100-LFD-7-S2-D1-H-2-SS-W-1-K0-M1-ST		
0	Issue for order		M.MEHD.	M.KHOD.
Rev.	Description		Drawn.	Checked.
				SEP..2016
				Date

NIROU CHLOR COMPANY



PLANT MEMBRANE CHLORINE CAUSTIC SODA  
NAME Smart pressure transmitter  
SUPPLIED BY DNP

UNIT 30 ITEM PT-020120  
QUANTITY 1  
REF.DWG. 2-AM-1001

OPERATING CONDITIONS:

FLUID 25% caustic soda from distribution ring  
PRESSURE 3.1 kg/cm<sup>2</sup>  
TEMPERATURE 30 ° C  
DENSITY 1270 kg/m<sup>3</sup>  
VISCOSITY 6 cps  
LEVEL HEIGHT  
SEALING FLUID  
STATIC PRESSURE

MEASURING ELEMENT

TYPE/MATERIAL Diaphragm/Hastelloy C  
WETTED PART MATERIAL Hastelloy C  
RANGE 0:53 / 8 bar  
OVERPRESSURE 16 bar  
LIMITS OF ERROR +/-0.1% of the range  
CALIBRATION 0:5 bar g  
CONNECTIONS  
HP Wafer type for flanges NW 65 DIN ND 16  
LP 1/2" NPT F  
INSTRUMENT AIR  
ELECTRICALS 1/2" NPT F

INSTRUMENT

TYPE Direct press. trans. with capillary and separator  
Smart  
BODY MATERIAL AISI 316 st. st.  
ELECT. CLASS./PROTEC. Tropicalized/IP 67  
SCALE 0:100 % linear ( LCD type )  
ACTION Direct  
DIFFERENTIAL  
OUTPUT 4-20 mA dc  
OUTPUT LOAD  
SUPPLY 24 Vdc

ACCESSORIES

ALARMS  
AIR FILTER REGULATOR  
ZERO ELEV./SUPP. RANGE .  
MOUNTING YOKE Required  
LOCAL INDICATOR Required  
CAPILLARY Required lg. 1.5 m armored type

CODE XTKC9CKD70 9I1

REMARKS

PLANT MEMBRANE CHLORINE CAUSTIC SODA  
NAME Smart pressure transmitter  
SUPPLIED BY DNP

UNIT 30 ITEM PT-040101  
QUANTITY 1  
REF.DWG. 4-AM-1001

OPERATING CONDITIONS:

FLUID Demiwater  
PRESSURE 2.8 kg/cm<sup>2</sup> g  
TEMPERATURE 25 ° C  
DENSITY 997 kg/m<sup>3</sup>  
VISCOSITY 0.89 cps  
LEVEL HEIGHT  
SEALING FLUID  
STATIC PRESSURE

MEASURING ELEMENT

TYPE/MATERIAL Diaphragm/Hastelloy C  
WETTED PART MATERIAL AISI 316 st. st.  
RANGE 0.53 / 8 bar  
OVERPRESSURE 160 bar  
LIMITS OF ERROR +/-0.1% of the range  
CALIBRATION 0:6 kg/cm<sup>2</sup> g  
CONNECTIONS  
HP 1/2" NPT-F  
LP 1/2" NPT-F  
INSTRUMENT AIR  
ELECTRICALS 1/2" NPT-F

INSTRUMENT Differential pressure transmitter  
TYPE Smart  
BODY MATERIAL AISI 316 st. st.  
ELECT. CLASS./PROTEC. Tropicalized/IP 67  
SCALE 0:100% linear ( LCD type )  
ACTION Direct  
DIFFERENTIAL  
OUTPUT 4-20 mA dc  
OUTPUT LOAD  
SUPPLY 24V-dc

ACCESSORIES

ALARMS  
AIR FILTER REGULATOR  
ZERO ELEV./SUPP. RANGE .  
MOUNTING YOKE Required  
LOCAL INDICATOR Required  
CAPILLARY

CODE XTAC9CCARO 9I1



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 10 of 11

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-0502504
SERVICE		Q.ty	1
LOCATION	Line :200-CX61-12061	P&ID N°	5-AM-1002/750

**OPERATING CONDITIONS**

FLUID	wet chlorine
PRESSURE	-0.45 kg/cm <sup>2</sup> g
DESIGN PRESSURE	bar g.
TEMPERATURE	78 °C
DENSITY	0.262 Kg/m <sup>3</sup>
VISCOSITY	0.012 cP

**INSTRUMENTS**

TYPE	Pressure transmitter with seal
CONSTRUCTION	IP67 /IEC529
CERTIFICATE	General purpose
ACCURACY	+/-0.15% of the range
RANGE	std mfr.
CALIBRATION	-1 ÷ 0 kg/cm <sup>2</sup> g
STATIC PRESSURE	std mfr.
BODY MATERIAL	st.st.
WETTED PART	See seal
FILLING FLUID	Fluorinated oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	1/2" NPT-F
ELECTRICAL CONNECTION	1/2 NPT-F
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 st.st.	
DIAPHRAGM MATERIAL	Tantalum	
CONNECTION TYPE / RATING	Flange , DN80	
CAPILLARY MATERIAL / LENGHT	not required	

**ACCESSORIES**

MOUNTING YOKE	Mounting bracket for 2-inches pipe
LOCAL INDICATOR	LCD type
INDICATION RANGE	-1 ÷ 0 kg/cm <sup>2</sup> g
ZERO ELEV./SUPP. RANGE	Std.Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For low side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

MODEL

0	Issue for order	M.MEHD.	M.KHOD.	SEP..2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 11 of 11

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-0601501
SERVICE	Chlorine from electrolyzers EL113	Q.ty	1
LOCATION	Line :400-CX61-12248	P&ID N°	6-AM-1001/750

**OPERATING CONDITIONS**

FLUID	wet chlorine
PRESSURE	-50 mmWG
DESIGN PRESSURE	bar g.
TEMPERATURE	81 °C
DENSITY	1.13 Kg/m <sup>3</sup>
VISCOSITY	0.0149 CP

**INSTRUMENTS**

TYPE	Pressure transmitter with seal
CONSTRUCTION	IP67 /IEC529
CERTIFICATE	General purpose
ACCURACY	+/-0.15% of the range
RANGE	std mfr.
CALIBRATION	-100/+100 mmWG
STATIC PRESSURE	std mfr.
BODY MATERIAL	st.st.
WETTED PART	See seal
FILLING FLUID	Fluorinated oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	1/2" NPT-F
ELECTRICAL CONNECTION	1/2 NPT-F
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 st.st.	
DIAPHRAGM MATERIAL	Tantalum	
CONNECTION TYPE / RATING	Flange , DN80	
CAPILLARY MATERIAL / LENGHT	not required	
FILLING FLUID		

**ACCESSORIES**

MOUNTING YOKE	Mounting bracket for 2-inches pipe
LOCAL INDICATOR	LCD type
INDICATION RANGE	-100/+100 mmWG
ZERO ELEV./SUPP. RANGE	Std.Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For low side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

MODEL

0	Issue for order	M.MEHD.	M.KHOD.	SEP..2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE SEP.2016	Sh. 5 of 11

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-0701551
SERVICE	Chlorine from drying towers (C614N)	Q.ty	1
LOCATION	Line: 250-CA62-12161	P&ID N°	7-AM-1001/750

**OPERATING CONDITIONS**

FLUID	Dry chlorine gas
PRESSURE	- 55 mbar g.
DESIGN PRESSURE	bar g.
TEMPERATURE	20 °C
DENSITY	2.2 Kg/m <sup>3</sup>
VISCOSITY	0.013 cP

**INSTRUMENTS**

TYPE	Pressure transmitter with seal
CONSTRUCTION	IP67
CERTIFICATE	General purpose
ACCURACY	+/-0.15% of the range
RANGE	std mfr.
CALIBRATION	-200/+200 mbar g.
STATIC PRESSURE	std mfr.
BODY MATERIAL	st.st.
WETTED PART	See seal
FILLING FLUID	Fluorinated oil
HP CONNECTION TYPE / RATING	See seal
LP CONNECTION TYPE / RATING	See seal
ELECTRICAL CONNECTION	M20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4*20 mA DC with digital communication HART protocol

SEAL	HP SIDE	LP SIDE
BODY MATERIAL	AISI 316 St.St.	AISI 316 St.St.
DIAPHRAGM MATERIAL	tantalum	AISI 316 St.St.
CONNECTION TYPE / RATING	1/2" NPT-F with oval flang	1/2" NPT-F with oval flang
CAPILLARY MATERIAL / LENGHT	NONE	NONE

**ACCESSORIES**

MOUNTING YOKE	Mounting bracket for 2-inches pipe
LOCAL INDICATOR	LCD type
INDICATION RANGE	-200/+200 mbar g.
ZERO ELEV./SUPP. RANGE	Std.Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For two side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

MODEL

1	Issue for order	M.MEHD.	M.KHODA.	SEP.2016
Rev.	Description	Drawn.	Checked.	Date



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

**PROJECT: 750 NEI**  
**SPC. No. 750-FB-3080**  
**DATE SEP.2016 Sh. 4 of 11**

**PLANT Chlorine Caustic Soda Plant**

<b>DESCRIPTION</b>	Pressure transmitter	<b>Tag.</b>	PT-0702512
<b>SERVICE</b>	Emergency line to chlorine neutralization	<b>Q.ty</b>	1
<b>LOCATION</b>	line:100-CA62-12305	<b>P&amp;ID N°</b>	7-AM-1002/750

**OPERATING CONDITIONS**

<b>FLUID</b>	Dry chlorine gas
<b>PRESSURE</b>	3.5 bar g.
<b>DESIGN PRESSURE</b>	bar g.
<b>TEMPERATURE</b>	35 °C
<b>DENSITY</b>	11.4 Kg/m <sup>3</sup>
<b>VISCOSITY</b>	0.0142 cP

**INSTRUMENTS**

<b>TYPE</b>	Pressure transmitter
<b>CONSTRUCTION</b>	IP67
<b>CERTIFICATE</b>	General purpose
<b>ACCURACY</b>	+/-0.15% of the range
<b>RANGE</b>	std. mfr.
<b>CALIBRATION</b>	0 ÷ 5 bar g.
<b>STATIC PRESSURE</b>	std. mfr.
<b>BODY MATERIAL</b>	st.st.
<b>WETTED PART</b>	Tantalum
<b>FILLING FLUID</b>	Fluorinated oil
<b>HP CONNECTION TYPE / RATING</b>	1/2" NPT
<b>LP CONNECTION TYPE / RATING</b>	1/2" NPT
<b>ELECTRICAL CONNECTION</b>	1/2" NPT-F
<b>POWER SUPPLY</b>	24 Vdc
<b>OUTPUT SIGNAL</b>	4÷20 mA DC with digital communication HART protocol

<b>SEAL</b>	<b>HP SIDE</b>	<b>LP SIDE</b>
<b>BODY MATERIAL</b>		
<b>DIAPHRAGM MATERIAL</b>		
<b>CONNECTION TYPE / RATING</b>		
<b>CAPILLARY MATERIAL / LENGHT</b>		

**ACCESSORIES**

<b>MOUNTING YOKE</b>	Mounting bracket for 2-inches pipe
<b>LOCAL INDICATOR</b>	LCD type
<b>INDICATION RANGE</b>	0 ÷ 5 barg
<b>ZERO ELEV./SUPP. RANGE</b>	Std. Mfr.
<b>MANIFOLD</b>	Not requested
<b>OVAL FLANGES</b>	For two side
<b>GASKETS</b>	PTFE
<b>BOLTS AND NUTS MAT.</b>	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**  
**MODEL**

1	Issue for order	<i>M.MEHD.</i>	<i>M.KHOD.</i>	SEP.2016
Rev.	Description	Drawn.	Checked.	Date

PLANT MEMBRANE CHLORINE CAUSTIC SODA  
NAME Smart pressure transmitter  
SUPPLIED BY DNP

UNIT 30 ITEM PT-090301  
QUANTITY 1  
REF.DWG. 9-AM-1003

OPERATING CONDITIONS:

FLUID HCl 33%  
PRESSURE 2.8 kg/cm<sup>2</sup> g  
TEMPERATURE 25 ° C  
DENSITY 1163 kg/m<sup>3</sup>  
VISCOSITY 1.68 cps  
LEVEL HEIGHT  
SEALING FLUID  
STATIC PRESSURE

MEASURING ELEMENT

TYPE/MATERIAL Diaphragm/Titanium  
WETTED PART MATERIAL Titanium  
RANGE 0.53 / 8 bar  
OVERPRESSURE 16 bar  
LIMITS OF ERROR +/-0.1% of the range  
CALIBRATION 0:5 kg/cm<sup>2</sup> g

CONNECTIONS

HP Wafer type for flanges NW 65 DIN ND 16  
LP 1/2" NPT-F  
INSTRUMENT AIR 1/2" NPT-F  
ELECTRICALS

INSTRUMENT

TYPE D.P. transmitter 1.5 m capillary and separator  
Smart  
BODY MATERIAL AISI 316 st. st.  
ELECT. CLASS./PROTEC. Tropicalized/IP 67  
SCALE 0:100% Linear ( LCD type )  
ACTION Direct  
DIFFERENTIAL  
OUTPUT 4-20 mA dc  
OUTPUT LOAD  
SUPPLY 24V-dc

ACCESSORIES

ALARMS  
AIR FILTER REGULATOR  
ZERO ELEV./SUPP. RANGE "  
MOUNTING YOKE Required  
LOCAL INDICATOR Required  
CAPILLARY Required

CODE XTBC9CFH60 8I1

REMARKS

Line 50 -CF 51 -



**INSTRUMENT  
DATA SHEET  
PRESSURE TRANSMITTER**

PROJECT:	<b>750 NEI</b>
SPC. No.	750-FB-3080
DATE	AUG.2016
Sh.	6 of 11

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-2101554
SERVICE	Hydrogen to HCl plant	Q.ty	1
LOCATION	Line :250-CA71-12229	P&ID N°	21-AM-1001/750

**OPERATING CONDITIONS**

FLUID	Wet hydrogen gas		
PRESSURE	150 mbar g.	max. 400	mbar g
DESIGN PRESSURE	bar g.		
TEMPERATURE	40 °C	max. 92	°C
DENSITY	0.12 Kg/m <sup>3</sup>		
VISCOSITY	0.012 cP		

**INSTRUMENTS**

TYPE	Pressure transmitter		
CONSTRUCTION	IP67 / IEC529		
CERTIFICATE	ATEX EEx-ia IIC T4/T5		
ACCURACY	+/-0.15% of the range		
RANGE	std mfr.		
CALIBRATION	0 ÷ 500	mbar g	
STATIC PRESSURE	std mfr.		
BODY MATERIAL	AISI 316 st.st.		
WETTED PART	Hastelloy C		
FILLING FLUID	Silicon oil		
HP CONNECTION TYPE / RATING	1/2" NPT		
LP CONNECTION TYPE / RATING	1/2" NPT		
ELECTRICAL CONNECTION	cable gland ,m20*1.5		
POWER SUPPLY	24 Vdc		
OUTPUT SIGNAL	4÷20 mA DC with digital communication HART protocol		

SEAL	HP SIDE	LP SIDE
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BODY MATERIAL	
DIAPHRAGM MATERIAL	
CONNECTION TYPE / RATING	
CAPILLARY MATERIAL / LENGHT	
FILLING FLUID	

**ACCESSORIES**

MOUNTING YOKE	not required
LOCAL INDICATOR	LCD type
INDICATION RANGE	0 ÷ 500 mbar g
ZERO ELEV./SUPP. RANGE	Std.Mfr.
MANIFOLD	Not requested
OVAL FLANGES	not required
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER  
MODEL

1	Issue for order	M.MEHD.	M.KHODA.	AUG.2016
Rev.	Description	Drawn.	Checked.	Date





**INSTRUMENT  
DATA SHEET  
TRANSMITTER**

PROJECT:	<b>750NEI</b>
SPC. No.	750-FB-3080P
DATE JAN.2016	Sh. 3 of 3

PLANT Chlorine Caustic Soda Plant

DESCRIPTION	Pressure transmitter	Tag.	PT-5206
SERVICE		Q.ty	1
LOCATION	E1308 A	P&ID N°	D281403/750

**OPERATING CONDITIONS**

FLUID	VAPOUR+ (Max 10ppm NaOH)
PRESSURE	-1~ +1 barg.
DESIGN PRESSURE	bar g.
TEMPERATURE	120 °C
DENSITY	0.118 Kg/m <sup>3</sup>
VISCOSITY	0.013 Cp

**INSTRUMENTS**

TYPE	Pressure transmitter
CONSTRUCTION	IP67
CERTIFICATE	General purpose
ACCURACY	+/-0.15% of the range
RANGE	std. mfr.
CALIBRATION	-1~ +1 barg.
STATIC PRESSURE	std. mfr.
BODY MATERIAL	st.st.
WETTED PART	AISI 316L st.st.
FILLING FLUID	Fluorinated oil
HP CONNECTION TYPE / RATING	1/2" NPT
LP CONNECTION TYPE / RATING	1/2" NPT
ELECTRICAL CONNECTION	M20*1.5
POWER SUPPLY	24 Vdc
OUTPUT SIGNAL	4~20 mA DC with digital communication HART protocol

**SEAL**

BODY MATERIAL	
DIAPHRAGM MATERIAL	
CONNECTION TYPE / RATING	
CAPILLARY MATERIAL / LENGHT	

**ACCESSORIES**

MOUNTING YOKE	Mounting bracket for 2-inches pipe
LOCAL INDICATOR	LCD type
INDICATION RANGE	-1~ +1 barg.
ZERO ELEV./SUPP. RANGE	Std. Mfr.
MANIFOLD	Not requested
OVAL FLANGES	For two side
GASKETS	PTFE
BOLTS AND NUTS MAT.	AISI 316 st. st.

**REMARKS**

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

**MANUFACTURER**

MODEL

0	Issue for order	M.MEHD.	M.KHODA.	JAN.2016
Rev.	Description	Drawn.	Checked.	Date



INSTRUMENT  
DATA SHEET  
TRANSMITTER

PROJECT: **750NEI**  
SPC. No. 750-FB-3080P  
DATE JAN.2016 Sh. 1 of 3

PLANT Chlorine Caustic Soda Plant

DESCRIPTION Pressure transmitter Tag. **PT-5702**  
SERVICE Q.ty 1  
LOCATION LINE:150-SH-A220-300 P&ID N° D281405/750

OPERATING CONDITIONS

FLUID High Steam  
PRESSURE 8 barg. (op.)  
DESIGN PRESSURE 10 bar g.  
TEMPERATURE 175 °C  
DENSITY 4.57 Kg/m<sup>3</sup>  
VISCOSITY 0.0148 Cp

INSTRUMENTS

TYPE Pressure transmitter  
CONSTRUCTION IP67  
CERTIFICATE General purpose  
ACCURACY +/-0.15% of the range  
RANGE std. mfr.  
CALIBRATION 0 ~10 barg  
STATIC PRESSURE std. mfr.  
BODY MATERIAL st.st.  
WETTED PART AISI 316L st.st.  
FILLING FLUID Fluorinated oil  
HP CONNECTION TYPE / RATING 1/2" NPT  
LP CONNECTION TYPE / RATING 1/2" NPT  
ELECTRICAL CONNECTION M20\*1.5  
POWER SUPPLY 24 Vdc  
OUTPUT SIGNAL 4~20 mA DC with digital communication HART protocol

SEAL

BODY MATERIAL  
DIAPHRAGM MATERIAL  
CONNECTION TYPE / RATING  
CAPILLARY MATERIAL / LENGHT

ACCESSORIES

MOUNTING YOKE Mounting bracket for 2-inches pipe  
LOCAL INDICATOR LCD type  
INDICATION RANGE 0 ~ 10 barg  
ZERO ELEV./SUPP. RANGE Std. Mfr.  
MANIFOLD Not requested  
OVAL FLANGES For two side  
GASKETS PTFE  
BOLTS AND NUTS MAT. AISI 316 st. st.

REMARKS

Label made by st.st. AISI 316 with the Tag. to be fixed in visible position

MANUFACTURER

MODEL

0	Issue for order	M.MEHD.	M.KHODA.	JAN.2016
Rev.	Description	Drawn.	Checked.	Date