



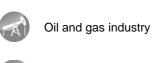
CRI-P-340

- differential pressure transmitter for process industry
- differential pressure: from 0...60 mbar up to 0...20 bar
- output signals: 2-wire: 4...20 mA
- HART[®] communication
- stainless steel sensor
- accuracy 0.1 % / 0.075 % span
- static over pressure 400 bar
- two chamber aluminium die cast case
- output signal: linear or square root extraction
- optional: integrated display and operating

The intelligent CRI-P-340 transmi er is designed for measurement of di eren al pressure in industrial processes of all produc on branches. It has an excellent long-term stability.

With the use of the square root output signal can be the steam and gas flow in orifice plates and speed probes measured.

PREFERRED AREAS OF USE ARE





Chemical and petrochemical industry



Energy Industry

Fo

Food and beverage

TECHNICAL DATA

Sensor type	В	С	D	E
Di erential pressure range dp	60 mbar	400 mbar	2.5 bar	20 bar
Setting limits (offset and span in this range freely adjustable)	-60 60 mbar	-400 400 mbar	-2.5 2.5 bar	-20 20 bar
Lowest permissible span	2 mbar	4 mbar	25 mbar	200 mbar
Permissible static pressure optional	160 bar -	160 bar 400 bar	160 bar 400 bar	160 bar 400 bar
Rangeability TD (with respect to the di erential pressure range dp)	30:1	100:1	100:1	100:1

Paper Industry

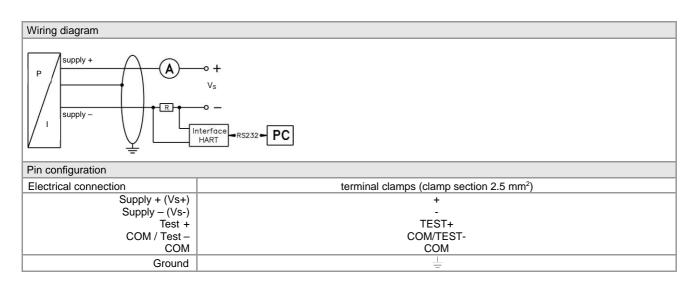
Output signal / Supply			
Standard	2-wire: 4 20 mA with HART®-communication	Vs = 12 28 Vpc	
Performance			
Accuracy	curacy 1. accuracy 0,1 % turn-down (span) 10:1: ± 0,1 % span turn-down (span) > 10:1: ± [0,01 × turn-down] % span 2. accuracy 0,075 % turn-down (span) 10:1: ± 0,075 % span turn-down (span) 10:1: ± 0,075 % span turn-down (span) 10:1: ± 0,075 % span		
	note: turn-down = nominal pressure range / adjustable range		
Influence supply	0.001 % span / 10 V		
Influence static pressure	type B: \pm [0.06 mbar + 0.075 % of the adjusted range] / 160 bar type C: \pm [0.2 mbar + 0.05 % of the adjusted range] / 160 bar type D: \pm [1.25 mbar + 0.05 % of the adjusted range] / 160 bar type E: \pm [10 mbar + 0.05 % of the adjusted range] / 160 bar		
Influence installation position	max. 400 Pa (can be compensated by zero-point correction)		
Long term stability	type B: \pm (0.2 % x di erential pressure range dp) / year at reference conditions type C - E: \pm (0.1 % x di erential pressure range dp) / year at reference conditions		
Permissible load	with LC-display: $R_{max} = [(V_S - 12 V) / 0.023 A]$ HART@-communication: $R = 230 \dots 600$		
Response time	type B: approx. 0.4 sec type C: approx. 0.2 sec type D: approx. 0.2 sec type E: approx. 0.1 sec		
Damping	electronic: 0.1 60 sec plus response time		



Thermal e ects (O set and Spa	ın)		
Temperature range -20 +65°C			
	type C - E: ± [0.20 x turn-down + 0.10] % of the adjusted range]		
Temperature range -4020°C	type B: ± [0.30 x turn-down + 0.20] % of the adjusted range]		
and +65 +100°C	type C - E: $\pm [0.20 \times \text{turn-down} + 0.10]$ % of the adjusted range]		
Permissible temperatures	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,	
Environment/storage	without display: -40 85 °C		
Linnonnoncorago	with display: -20 65 °C	(85°C without function)	
Media wetted parts	silicone oil: -40 100 °C	(information: +125 °C short time, max. 30 min.)	
	fluorolube oil: -40 100 °C	(information: +125 °C short time, max. 30 min.)	
Electrical protection			
Short-circuit protection	permanent		
Reverse polarity protection	no damage, but also no function		
Electromagnetic compatibility	emission and immunity according to) EN 61326	
Mechanical stability			
Vibration	5 g RMS (25 2000 Hz)	according to DIN EN 60068-2-6	
Shock	100 g / 1 msec	according to DIN EN 60068-2-27	
Materials			
Pressure port	stainless steel 1.4401 (316)		
Housing	aluminium die cast, powder-coated		
Viewing glass	laminated safety glass		
Seals (media wetted)	FKM / EPDM		
Diaphragm	standard: stainless steel 1.4435 (3	16 L)	
Diapinagin	option: Hastelloy® C-276 (2.481	,	
Media wetted parts	pressure port, seals, diaphragm		
Filling fluids	silicon oil		
Miscellaneous	-		
Display (optionally)	LC display, visible range 32.5 x 22.5 mm; 5-digit 7-segment main display, digit height 8 mm, range of indication ±9999; 8-digit 14-segment additional display, digit height 5 mm; 52-segment bargraph; accuracy 0.1% ± 1 digit		
Ingress protection	IP 67		
Installation position	any		
Weight	min. 3500 g		
Current consumption	approx. 21 mA		
Operational life	> 100 x 10 ⁶ cycles		
CE-conformity	EMC Directive: 2014/30/EU		
Connections			
Electrical connection	terminal clamps in clamping chamb	er with cable gland M20x1.5 (for cable-Ø 5 up to 14 mm)	
For mechanical connection	internal threads 7/16-20 UNF (connecting screws are not part of delivery)		

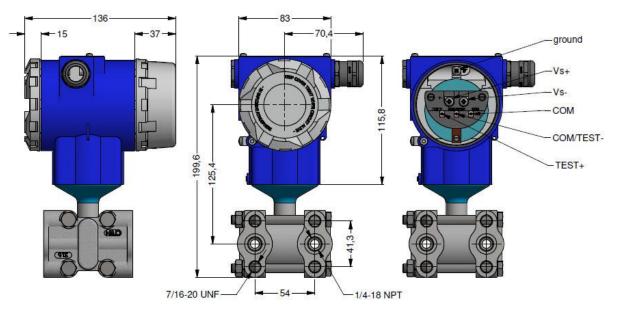
HART[®] is a registered trade mark of HART Communication Foundation; Hastelloy[®] is a brand name of Haynes International Inc. Windows[®] is a registered trade mark of Microsoft Corporation

ELECTRICAL CONNECTION





DIMENSION DRAWINGS



* without display and operating module marked dimensions decrease by 22 mm

 $^{2}\,aluminium$ die cast case is horizontally rotatable

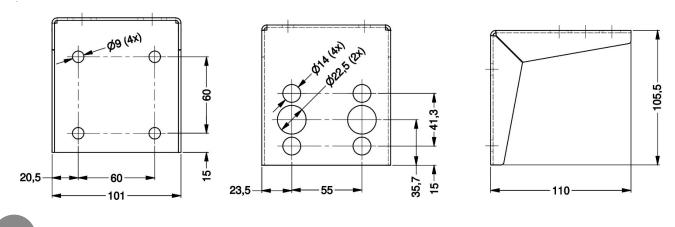
ACCESSORIES

Process connect	ion (not part of delivery)		
Objednací typ			Ordering code
blinding plug (exter	nal thread) ¼" – 18 NPT		5002322
blinding plug with venting (external thread) ¼" – 18 NPT 1003217		1003217	
screw 7/16" UNF X 1 3/4" A2 (4 pcs needed), the screw is only used to connect the valve set		connect the valve set	1004639
Universal holder			
Weight	550 g		
Material	black steel		





Dimensions (in mm)



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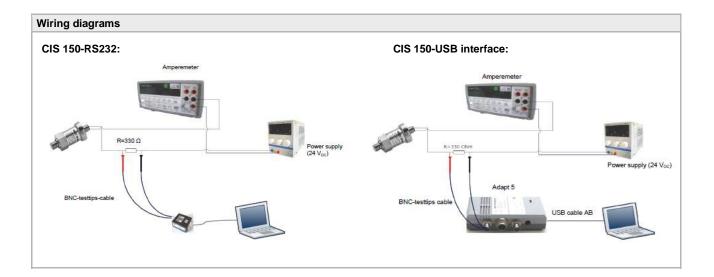
Programming kits for HART® devices: CIS 150-RS232 and CIS 150-USB



CIS 150-USB



Package contents	Programming software "Config 3.0" on CD operating manual CIS 150-RS232: HART® modem (MH-02 Manufacturer: JSP NOVÁ PAKA) connecting cable BNC-Testtip (for measuring device) 9-pin connecting cable RS232 (for PC)
	CIS 150-USB: Adapt 5 connecting cable BNC-Testtip (for measuring device) USB connecting cable – Type A to Type B – (for PC)
System requirement	For the installation of the software, a Windows® PC (95, 98, ME, 2000, NT, XP) with serial interface (RS 232) or USB-interface is required



Ordering codes	
Version:	Ordering code:
HART(R) modem with RS232 connection cable for PC	CIS 150-RS232
Adapt 5 with USB connection cable for PC	CIS 150-USB
Windows® is a registered trade mark of Microsoft Corporation	



ORDER CODE

	СRІ-Р-340- [
Innut	
Input 0 60 mbar	0 6 0 0
0 400 mbar	
0 2,5 bar	
0 20 bar	
-60 60 mbar	S 0 6 0
-400 400 mbar	S 4 0 0
-2,5 2,5 bar	
Customer	S 2 5 2 9 9 9 9
Maximum static pressure	
160 bar	1
400 bar (P _N 0.4 bar)	
	4
Display Without local indicator	
With LC multiple function indicator	A 0
Output signal	
HART® - 4 20 mA / 2-wire Customer	H IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	9
Accuracy	
0,1 %	
0,1 % including Calibration Certificate	P I I I I I I I I I I I I I I I I I I I
0,075 %	
0,075 % including Calibration Certificate	P1 P1
Mechanical connection	
1/4" NPT internal thread	N 5 6 9 9 9
Customer	9 9 9
Diaphragm material	
Stainless steel 1.4435 (316L)	1
Hastelloy® C-276 (2.4819)	Н
Customer	9
Seals	
Viton (FKM)	1
EPDM	3
PTFE	4
Special version	
Standard	0 0 0 1 9 0
Square root output signal - active	1 9 0
Optional accesories	
Process connection	
Blinding plug 1/4" NPT (external thread)	5002322
Blinding plug with venting 1/4" NPT (external thread)	1003217
Screw 7/16" UNF (4 pcs needed), the screw is only used to connect the valve	e set 1004639
Diaphragm Seal	
Capillary tube	
Capillary tube armoured	
Flange with integral extended diaphragm	
Extension length up to 100 mm	
Extension length between 100 - 200 mm	
Mechanical connection	
Flange DN 25/PN 40 DIN 2501 (without seals)	
Flange DN 40/PN 40 DIN 2501 (without seals)	
Flange DN 50/PN 40 DIN 2501 (without seals)	
Flange DN 80/PN 16 DIN 2501 (without seals)	
Flange DN 100/PN 16 DIN 2501 (without seals)	
Customer	
Mounting bracket	
Universal holder for CRI-P-340	5029224
Factory Calibration Certificate	5029224
Table of measured values - printed on Warranty Certificate	
Programming	
Programming HART® modem HM02 + USB including SW CONFIG	5031837

!!! When you make an order it is necessary to fill the questionnaire for transmitters with separators!!!

Manufacturer reserves the right to change sensor specifications without further notice.

