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PROGRAMMABLE 2- WIRE DEWPOINT TRANSMITTER

type DPT-21	dewpoint temperature measurement
DPT-21	measurement range -100 +20 °Cdp, scaleable
	$\square$ operating temperature -40 +60 °C
	ceramic capacitive sensor
	fast response to the changing humidity
	sensor fault indication
	☐ 4-20mA current loop powered
	programming in units: °Cdp, °Fdp, ppm (by volume)
pressure.	on site makes monitoring dewpoints as easy as measuring temperature or meters as measurement unit and range may be adapted by user for specific via IF-2013U-DPT interface which is also offered.
TECHNICAL DATA	Default values are underscored
Dewpoint measurement range:	<u>-100 +20 °Cdp</u> or148 +68 °Fdp or 0,01 23000 ppm(v)
Measurement accuracy	± 2 °Cdp
Thermal drift	compensated across operating temperature range
Conversion range	10 % 100 % of measurement range - programmable
Response time T95	1 min (dry to wet)
Output signal	4 20 mA or 20 4 mA - programmable
Linear region of output signal	3,8 20,5 mA
Output signal delay after power on	ca. 5 s
Sensor failure indication	23 mA or 3,5 mA - programmable
Power supply Vs	8 36 V DC / 24 mA (from current loop)
Maximal load resistance $[\Omega]$	(Vs[V] - 8) / 0,024
Operating temperature range	-40 +60 °C

Maximal operating pressure Housing material / filter Ingress protection

Process connection

Dimensions with connector (diameter x length) / weight

Accessories (ordered separately) - details at www.czaki.pl

40 MPa

stainless steel / 5  $\mu$ m stainless steel sintered guard

(5)

external thread 5/8"-18 UNF

31 x 129 mm / 150 g

interface IF-2013U-DPT

process connection adapter G1/2"-DPT

sampling block SB-DPT

## ORDERING CODE (1) (2) (3)DPT-21

(1) Lower range value (for 4 mA output)

Upper range value (for 20 mA output) (2)

(3) Physical unit

(4) Measured gas pressure if ppm

Sensor fault indication (5)

value in units declared in (3), default -100 value in units declared in (3), default +20

°Cdp, °Fdp, ppm ,default °Cdp

value in [hPa], default 1013,25

H - by 23 mA output, L - by 3,5 mA output, default H

**Example for order:** DPT-21 denotes dewpoint transmitter for measurement range from -100 to +20 °Cdp with 4...20 mA

signal output.

DPT-21 / 0,01 / 23000 / ppm denotes dewpoint transmitter for measurement range from 0,01 to 23000 ppm

(pressure 1013,25 hPa) with 4...20 mA signal output.