



Low-frequency Transmitter PNT-04



Transmitter PNT-04 is installed on smart or utility in-line PIGs, which work in pipelines with diameter from 150 mm to 300 mm (from 6 to 12 inches). The transmitter emits low-frequency (22 Hz) electromagnetic signals that pass through metal and concrete walls, as well as through a layer of soil or water above the pipeline. Position of a PIG equipped with the transmitter is determined with help of a low-frequency locator. PNT-00 transmitters are equipped with flash LED indication, which lets the operator to receive visual feedback about particular emission mode of the transmitter and what is residual life of batteries for work in this mode. Small remote control included into delivery set allows to switch ON/OFF the transmitter and to change transmitter's emission mode without opening the transmitter housing while PNT transmitter remained installed on a PIG. The link between transmitter and remote control is working via infrared channel.

BASIC TECHNICAL CHARACTERISTICS

Detection range (in air)	21m
Autonomous work time	not less than 240 hours (up to 700)
Working pressure	12 MPa or 1740PSI (tested at 15.3 MPa or 2250 PSI)
Ingress protection (according to GOST 14254-96)	IP68 at pressure 12 MPa
Working temperature	- 40°C to +80°C (-40F to 176F)
Explosion protection certification label	0ExdslIBT5
Power supply	4 batteries LR 6 (AA) with voltage 1.5V
Overall dimensions	diameter 58 mm (62.5mm shoulder), length 260 mm
Weight	3.5 kg
Mean time before any failure	not less than 5000 hours
Emission modes	«Batches», «Continuously», «Batches with doubled power», «Continuously with doubled power»
Batteries remaining life indication	Yes
Indication of current emission mode	Yes

Transmitters PNT are produced serially according to TU 4276-001-96335610-2007.

They comply with the requirements of Technical Regulations of the Customs Union TR CU 012/2011 "About safety of equipment for use in potentially explosive atmospheres" and GOST R 51330.1-99 (IEC 60079-1-98), GOST 30852.1-2002 (IEC 60079-1:98), GOST 22782.3-77

Listed in the Register of technical devices, recommended for use in the fuel and energy complex of the Russian Federation.

The warranty for the transmitters is 12 months.

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Dimensional drawing of Transmitter PNT-04

