

MKS-2

Modem Signals Concentrator



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design

production

implementation

service

Device description

Modem Signals Concentrator MKS-2 is designed for collecting, displaying and transmitting data from underground measuring devices including gases concentration sensors and atmosphere parameters meters. MKS-2 is compatible with digital meters produced by ROOTTEL as well as other devices with analog 0.4V ... 2V voltage output.

The device allows to present results on build in OLED display. It is capable of realising control logic functions using bistable inputs and outputs. Transmission with overground system is realized by modem line, RS485 bus or optical fiber Ethernet. The device along with connected end devices can be controlled remotely from the system. MKS-2 power is supplied by modem line or by local dedicated 12V power supply.

MKS-2 is produced in high durable plastic housing with high degree of ingress protection IP-65 which is resistant to environment conditions and electrostatic charges. The concentrator can be equipped with power backup accumulator. It contains build in numerical keyboard and closed connectors section which allows connecting end devices using star or bus topology.

Basic parameters

ATEX certificate marking	Ex I M1 Ex ia I Ma
External transmission to overground system	V23 Modem line / RS485 / Optical fiber Ethernet
External transmission to end devices	RS485 or analog inputs (0.4V÷2V)
Maximal number of connected end devices	4 analog devices / up to 8 digital RS485 devices
Number of bistable inputs and outputs	4 inputs + 4 outputs
Power supply	60V/50mA modem line or
	12V DC / 100mA (200mA for Ethernet version)
Working temperature range	from -20°C to 40°C
Dimensions	260mm x 310mm x 90mm
Weight	ca. 3kg
Ingress Protection code	IP-65

Roottel Sp. z o.o.

ul. Leopolda 29
40-189 Katowice

tel.: (+48 32) 705 73 95

fax: (+48 32) 705 73 99

biuro@roottel.pl

www.roottel.pl