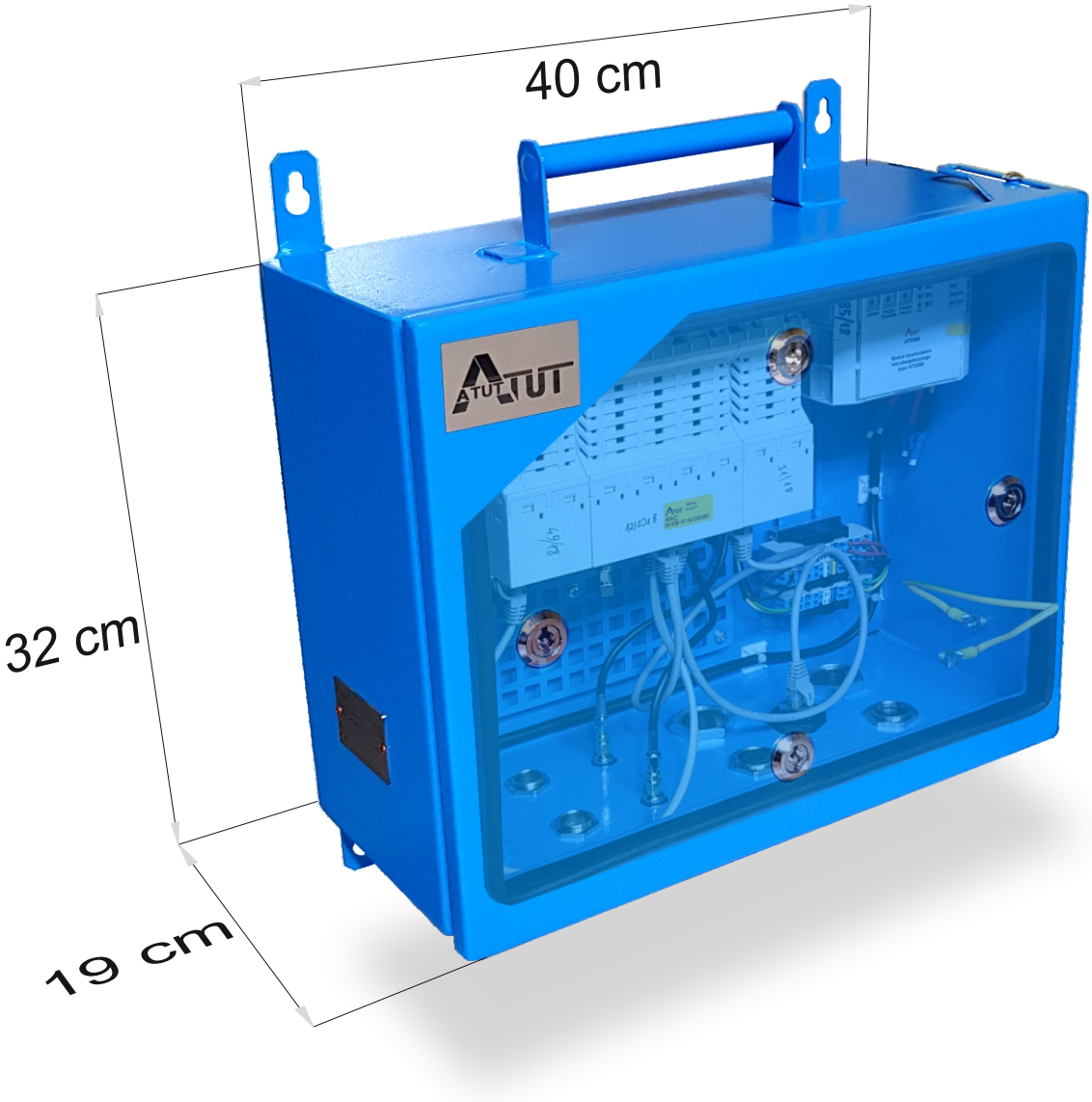
Network node device

AT-NODE/..



Device description:

AT-NODE/.. device is an active network node which can accumulate the signals comming from localy plugged external device(s) as well as the transmission comming from the network backbone which AT-NODE/.. is a part of. Depending on its internal equipment data can be transferred to/from the device using the wireless transmission as well as the fiber optic cable, and cooper cable. Data transmission is based on the Ethernet protocol.
Device is done as per ATEX requirements for group I. Its internal circuits are designated as ‚ia' which makes it capable of working under any mining conditions. Its external enclousure provides it with IP65 protection level. It is possible for the device to be fitted with battery blocks in order to provide its functionality when the main power is off.

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Technical description:

Ambient temperature	0C ÷ 34C
Max humidity	95%
ATEX designation	I M1 Ex ia op is I Ma
Input voltage	12 ÷ 15 VDC Intrinsically safe
Current consumption	< 1A
Mass	5 kg
IP protection level	IP65
Battery back-up	availiable
Number of cable glands	dependable/as per requirement
Data transmission protocol	Ethernet
Number of inbuilt switches (type ISE)	1
Number of ethernet ports availiable	5
External Ethernet communication port	availiable
Numer of inbuilt media converters type (KM-i)	2

WiFi data transmission:

WiFi module standard	IEEE 802.11b,g,n
Frequency	2.4 GHz
Max radiated power	<100mW
Number of antenna outputs	2
Ethernet ports	4 available
Multihopping	availiable

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