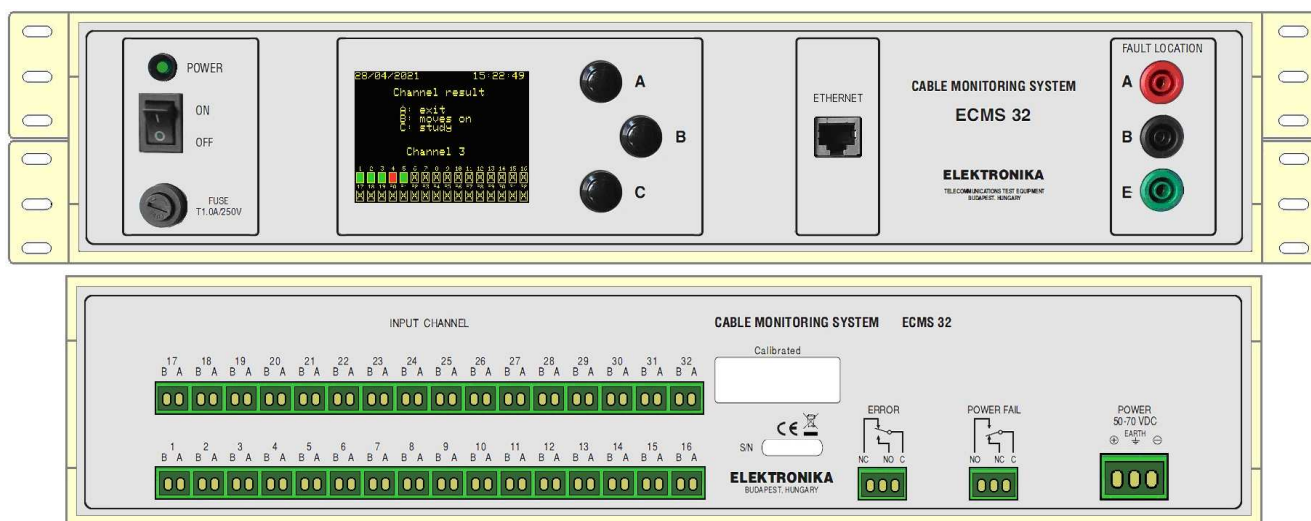


FRONT AND REAR VIEW



APPLICATION AND FEATURES

The **ECMS 32 MONITORING SYSTEM** is a 60 V battery-operated instrument built in a 19" rack for monitoring maximum 32 telecom cables. The far ends of the tested pairs should be short-circuited.

The bridge-unit of the instrument performs continuously repeated loop resistance and insulation resistance measurements between the wires and the ground on each connected pair.

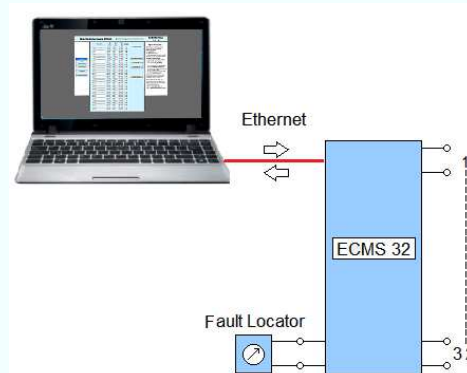
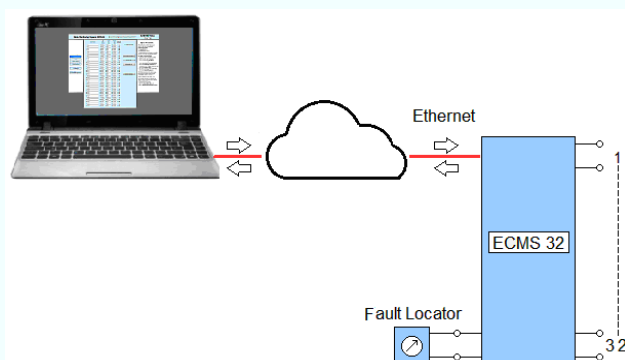
The operability of telecommunication cables is essentially guaranteed by the tightness of the cable jacket against the ingress of moisture. Usually moisture-sensitive wire pairs are used for monitoring.

ECMS 32 compares the measured insulation and loop resistances to preset limit values. The violation of limits is indicated on a display and activates a potential-free relay contacts for remote transmission the alarm signal.

ECMS 32 has an Ethernet interface to connect a PC or establish connection to a remote operator. The instrument acts as a HTTP server.

The Ethernet connection provides useful tools for the operator to:

- Activate cables and deactivate the currently not used ones.
- Preset the limit values.
- Enter the name (identifier) of cables.
- Get detailed information about the current state of cables
- Get detailed information about the last 250 monitoring cycles
- Interconnect the faulty cable and the built in TDR unit
- Interconnect the faulty cable and an external fault locator



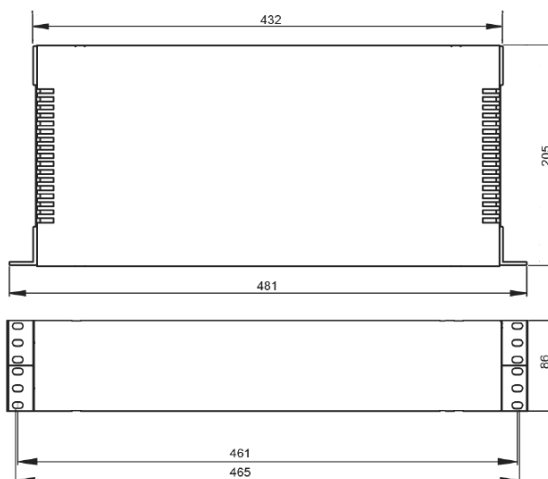
SPECIFICATIONS

<p>Loop resistance measurement Measuring range..... 10 Ω to 1 kΩ Measuring time..... < 20 sec Accuracy..... ±1 % ±0.5 Ω</p> <p>Insulation resistance measurement Measuring voltage 100 V Measuring range..... 1 MΩ to 1 GΩ Measuring time..... < 40 sec Accuracy 1 MΩ to 50 MΩ 5% 50 MΩ to 300 MΩ 10%</p>	<p>Time Domain Reflectometer Measuring ranges 640 m to 16000 m Pulse width..... 30ns to 3μs Pulse amplitude:..... max 10Vpp to open circuit Gain control..... 0 to 90 dB in 6 dB/steps Propagation velocity (V/2)..... 50 to 150 m/μs Resolution 1 m Accuracy 0.2% of range Measuring modes..... New Test New Test & Saved Result Saved Result Input protection 600V RMS 50 Hz</p>
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GENERAL SPECIFICATIONS

<p>Power Supply Voltage 60V DC</p> <p>Display 320 x 240 color LCD TFT</p> <p>Connectors For power supply and GND..... 3 pole connector For tested cables..... 32 pieces of 2 pole connectors For alarm..... 2 pieces of 3 pole connectors For fault location. 3 pieces of 4 mm banana sockets For data transfer..... Ethernet socket</p>	<p>Ambient temperature ranges Reference..... +23 ±5°C, Rel. humidity 45% to 75% * Normal operation..... 0 to +40°C Rel. humidity 30% to 75% *(<25g/m³) Limits of operation -5 to +45°C Rel. humidity 5% to 95% *(< 29 g/m³) Storage and transport..... -40 to +70°C Rel. humidity 95% at +45°C *(<35g/m³)</p> <p>Weight..... ~2 kg</p> <p>* Without condensation</p>
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SIZES



ORDERING INFORMATION

<p>CABLE MONITORING SYSTEM ECMS 32 472-000-000</p> <p>Including: Operating Manuals Connector set consisting of:</p> <ul style="list-style-type: none"> • 32 pieces of 2 pole sockets (for tested cables) • 2 pieces of 3 pole sockets (for alarm) • 3 pole socket (for power supply and ground)
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