

UNITROL® 1010 and UNITROL® 1020

UNITROL® 1020 combines high performance control and power circuits with a simple mechanical design. The construction provides a platform for a broad range of applications, including those in highly demanding environmental conditions.

Furthermore, high levels of EMC immunity is achieved through separation of the power and measurement terminals from the I/O connectors.

Polymer housing

- Protects all live parts to prevent electric shocks.

USB port

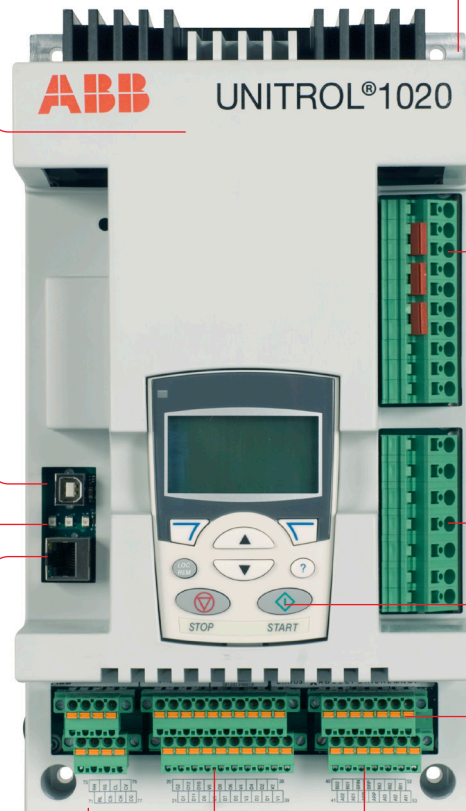
- Connects the CMT1000 (commissioning and maintenance tool);
- Device configuration, event and data upload without any control supply voltage possible.

Indication LEDs

- Green: Power ON, blinking indicates software is running;
- Yellow: Excitation ON, blinking indicates Limiter is active;
- Red: Alarm, blinking indicates start up error.

Ethernet port

- Connects the CMT1000;
- Remote access over Modbus TCP.



Solid aluminium base plate

- Robust mechanical design allows use in high vibration applications.

Power and measurement terminals

- Specified up to 30 A continuous current and cable up to 4 mm² (AWG 24–10);
- Tension spring terminals for reliable connection;
- Easy access over test points.

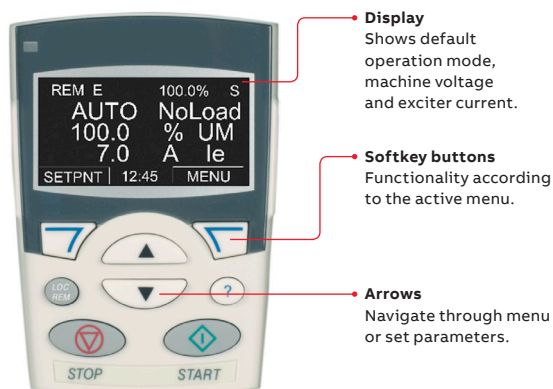
Local human interface

- Intuitive local control "panel" for indication of AVR status, active limiters and measurements;
- Local control can be taken over to change parameters.

Analog and digital inputs and outputs, serial fieldbus

- Tension spring connectors allow reliable wiring and fast replacement.

Local human-machine interface of the UNITROL® 1020 provides immediate data on AVR status.



Display
Shows default operation mode, machine voltage and exciter current.

Softkey buttons
Functionality according to the active menu.

Arrows
Navigate through menu or set parameters.

UNITROL® 1010 is a compact device supporting a subset of UNITROL® 1020 and is designed for excitation currents up to 10 A nominal. It supports the same interfaces and has the same mechanical footprint as UNITROL® 1020.



UNITROL® 1005

UNITROL® 1005 is the most compact UNITROL® 1000 device and is designed for excitation currents up to 5 A nominal.

Ethernet port

- Connects the CMT1000;
- Remote access over Modbus TCP.

USB port

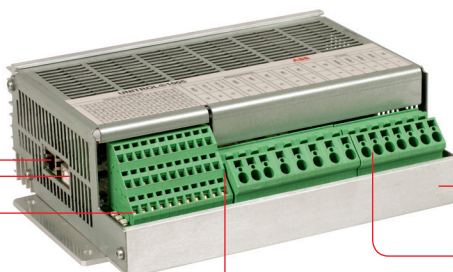
- Connects the CMT1000 (commissioning and maintenance tool).

Indication LEDs

- Operational indications.

Analog and digital inputs and outputs

- Tension spring terminals allows for reliable wiring.



Solid aluminium base plate

- Robust mechanical design allows for use in high vibration applications.

Power and measurement terminals

- Specified up to 30 A continuous current and cable up to 4 mm² (AWG 24–10);
- Tension spring terminals for reliable connection ;
- Easy access over test points.