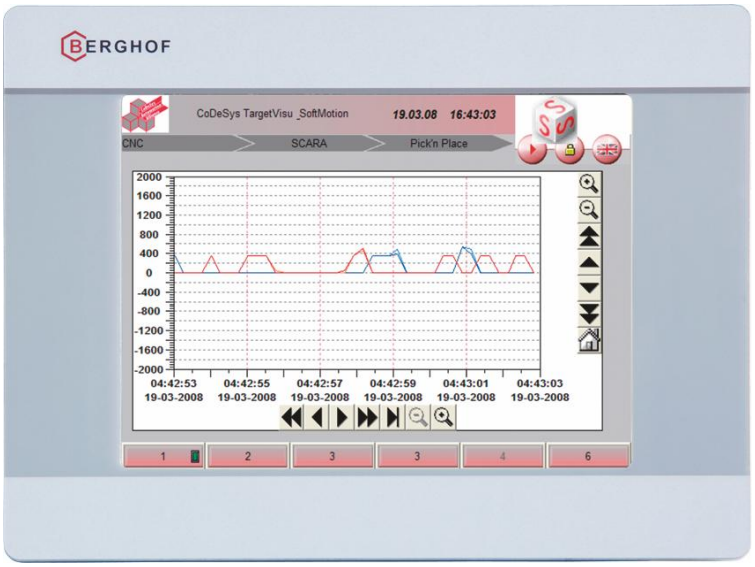
Controls / Control Systems

Ethernet terminal ET1005 VT

As a rule today, new requirement profiles for machinery and plants call for consistent Ethernet networking. This is combined with the objective of reducing software costs and simplifying installation. Especially with PLC visualisation there is still great potential for rationalisation. The new generation of Ethernet terminals provides with an easy software concept and a fast network connection an ideal platform.



Brief description

The Ethernet terminal is an Ethernet-based operating and visualisation terminal for machinery and plants. The visualisation or input data are exchanged via the Ethernet connection between the Ethernet terminal and a CoDeSys PLC controller. The Ethernet terminal is therefore a remote display which has been sent via Ethernet, matching the Berghof controllers. The target visualisation on the CoDeSys controller is displayed on the Ethernet terminal. Terminal inputs on the touch screen or on the keyboard membrane are fed back to the controller.

Mounting

The Ethernet terminals are designed for installation for the front panel or for building into a switching cabinet in a rough, industrial environment. Owing to the fanless design, the device requires no maintenance.

Display

3.5” (QVGA) and 5.7” (VGA) devices with a TFT display are available to choose from. The housing dimensions depend on whether it is a model with a touch screen or with a matrix keyboard.

Ethernet

A 10/100 MBit/s Ethernet interface is available. The pre-initialised VNC client function guarantees a very simple and fast connection to a CoDeSys controller (VNC server).

The facts

- Compact design
- Variable 3,5" and 5,7" displays
- Affordable Ethernet networking simply with VNC protocol
- Efficient centralized data management

ET1005 VT

Module data	
Version	ET1005 VT
Display / Diagonal	QVGA / 5,7" touch
Resolution / Colours	640 x 480 pixels / TFT colour: 65536 (8 bits / pixels)
Dimensions (WxHxD [mm])	170 x 130 x 37,5 (+ front panel 3 mm)
Weight	Approx. 800 g
Mounting	Snap-on mechanism implemented by a spring clips Tension clamps for fixing screws are available as an option (not included in scope of supply)

EMC, protection class	
Emitted interference	EN 61000-6-3:2007-9, residential sector
Immunity to interference	EN 61000-6-2:2006-3, industrial sector
Protection class	III.
Insulation strength	EN 61131-2:2004-2
Protection type	IP20 (Front side IP65: for devices which are equipped only with touch feature, with additional tension clamp according to installation regulations)
Vibration	Sinus-shaped (EN 60068-2-6) test: Fc; 10 ... 150 Hz, 1 G (Operation Mode)
Schock resistance	15 G (ca. 150 m/s²), 10 ms duration, semi-sinus (EN 60068-2-27) test: Ea

Energy supply (24 V power pack)	
Supply voltage	+24 VDC (-15% / +20%) SELV; max. residual ripple 5%
Power consumption	max. 500 mA (at Ue= +24 VDC); 5,7" 230 mA
Polarity reversal protection	Yes
Potential isolation	No

Ethernet interface	
Number and type of interfaces	1x 10/100 Base-T
Connection system	RJ45
Power over Ethernet	available as an option

USB interfaces	
Number and type of interfaces	1x Host USB Rev. 2.0 (for service purposes, not an application interface) supply +5 V, max. 0,5 A
Connection system	1 USB type A plug-in connector, at rear

Operating conditions	
Ambient temperature	0 °C to 55 °C (if installation instructions are observed)
Relative air humidity	max. 85 %, non-condensing

Transportation, storage	
Ambient temperature	-20 °C to +70 °C
Relative air humidity	max. 85 %, non-condensing