



## Ethernet terminal **ET1000**

**Cut costs with Ethernet terminals  
for PLC visualisation**

- Networking via Ethernet TCP/IP
- Affordable standard components
- Centralised data management in the PLC



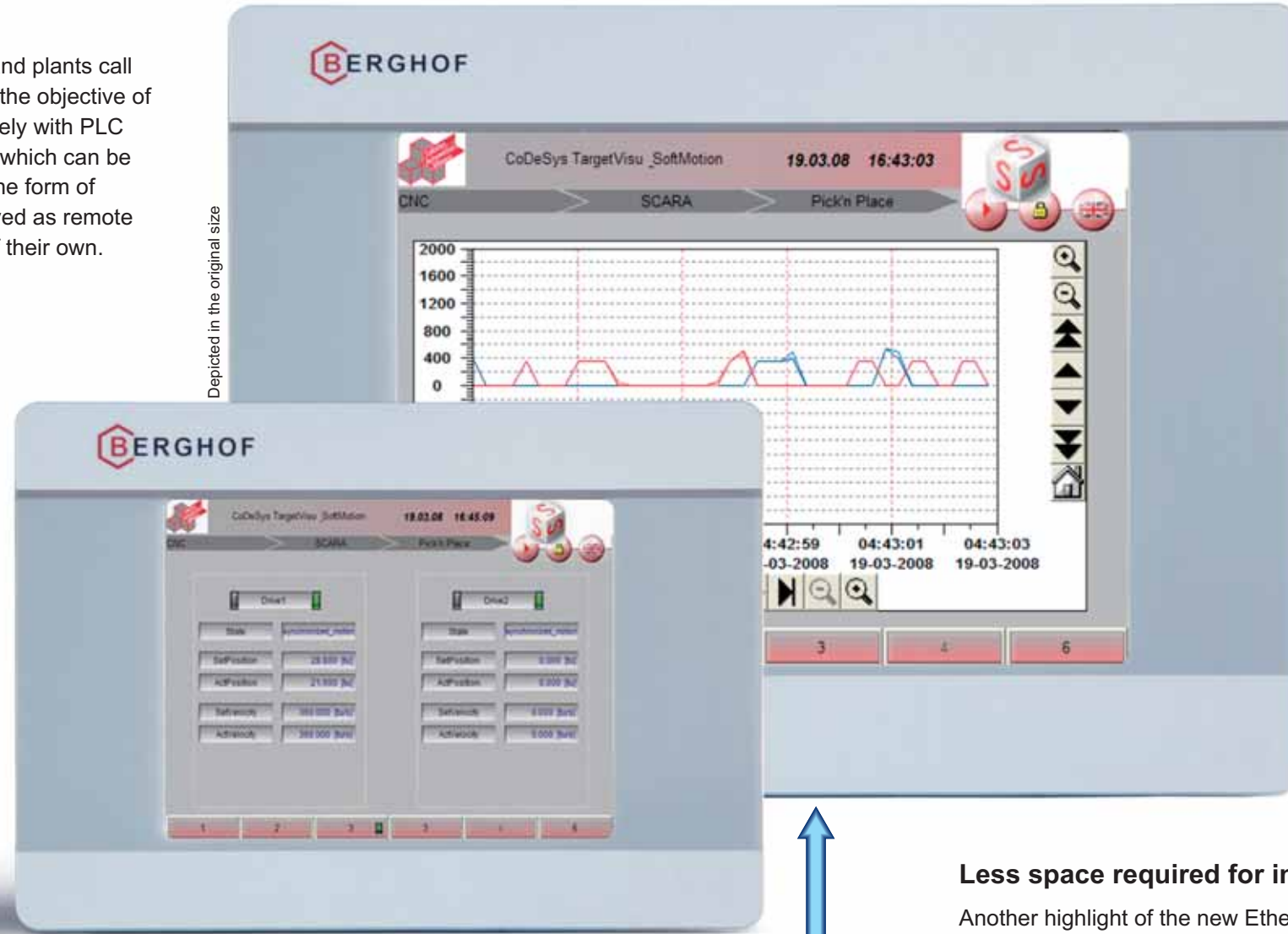
**Ethernet networking throughout**

As a rule, today new requirements profiles for machinery and plants call for Ethernet networking throughout. This is combined with the objective of reducing software costs and simplifying installation. Precisely with PLC visualisation there is still great potential for rationalisation, which can be increased by means of the Berghof Ethernet terminals in the form of "Visualisation Clients". Therefore the terminals are conceived as remote visualisation terminals without any engineering software of their own.

**One central software – display over IP**



All the visualisation masks are part of the PLC program; the Ethernet terminals access only the visualisation and therefore manage without a second tool or indeed a list of variables. Everything runs on the common CoDeSys platform. All the visualisation data of the CoDeSys target visualisation are transmitted by the CoDeSys controller via Ethernet.



Depicted in the original size

**An affordable hardware base**

With the new Ethernet terminals the trend is very clearly towards "slimmed-down terminals". Ideally they consist of only one processor with a memory, graphic interface and the ports for the touch screen and the keyboard. Only what is needed to display the visualisation runs on the operating system.

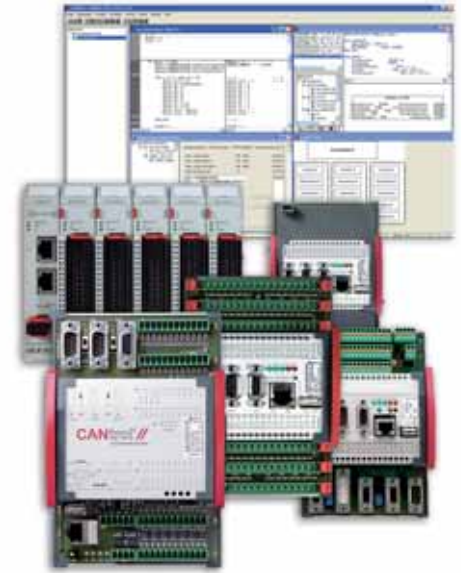


**USB peripheral equipment**

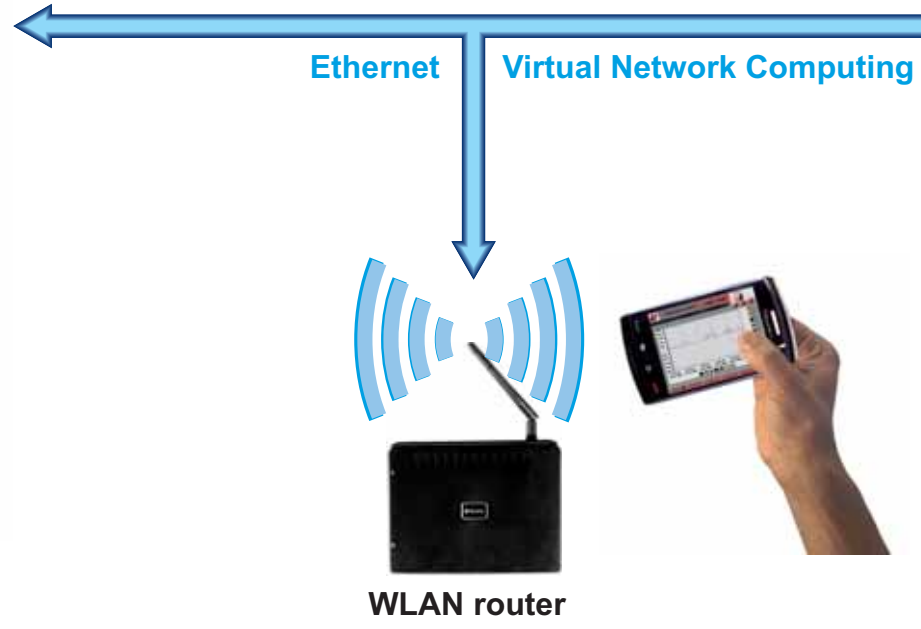


**Less space required for installation**

Another highlight of the new Ethernet terminal generation is the smaller space required for its installation. The intelligence is located in the PLC, and the many different connections are omitted and replaced by the continuous and space-saving Ethernet connection.



**Visualisation server and PLC controller**



**Can be accessed by every client – down to a cell phone**

At Berghof the server application on the PLC controller is based on a universal VNC communications interface. Hence the screen content can be called up both from Berghof Ethernet terminals and quasi from any remote computer (client), for example from an app on a smartphone.



**Jürgen Wanner**  
Product Manager

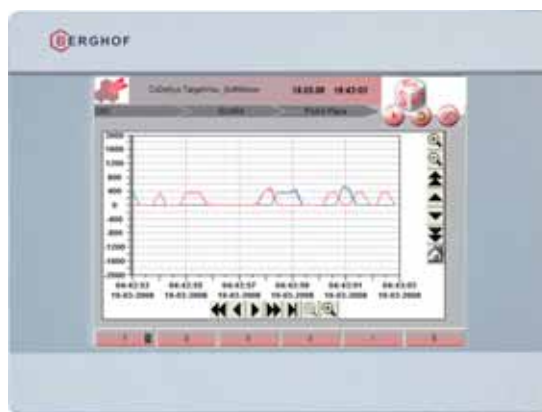
"Ethernet terminals use VNC. VNC (Virtual Network Computing) ensures that the data of a server or PC are displayed on a local client. VNC can be used independently of a platform. Hence there are many other fields of application besides PLC visualisation for the Ethernet terminals."

## Technical data

CPU	400 MHz Controller
Memory	64 MB RAM / 128 MB Flash
Interfaces	Ethernet: 1 x 10/100 Mbits USB: 1 x USB 2.0
Spannungsversorgung	24 -volt industrial standard or optional power-over-Ethernet in accordance with IEEE 802.3af

## ET1005-VT

Display resolution	VGA 640 x 480
Screen diagonal	5.7"
Colour depth	16 bits
Input	resistive touch
External dimensions (H x W x D mm)	128 x 167 x 37.5
Installation aperture (H x W mm)	117 x 155.5



## ET1003-QT

Display resolution	QVGA 320 x 240
Screen diagonal	3.5"
Colour depth	16 Bit
Input	resistive touch
External dimensions (H x W x D mm)	85 x 115 x 35.7
Installation aperture (H x W mm)	77 x 108



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