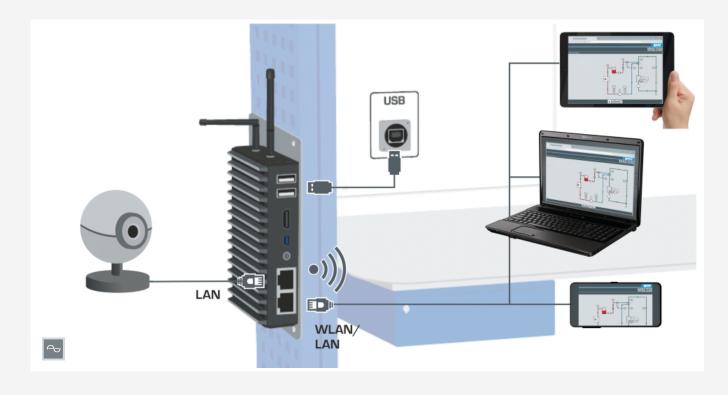


GU 100 Web Access Box



Description

- observation, acquisition and evaluation of experiments via web browser
- live streaming of experiments via IP camera
- Web Access Box as server with integrated WLAN module to connect end devices: PC, tablet, smartphone

GU 100 is an accessory for selected GUNT devices. The Web Access Box enables practice-oriented distance learning via the customer's own network. Using a web browser, experiments are observed via live stream, switching states of the experimental unit are tracked, measured values are graphically visualised and easily stored locally for further evaluation.

The Web Access Box functions as a server. It performs the data acquisition, transmits control commands and provides all information on a software interface. The software interface can be accessed with all types of end devices via a web browser, irrespective of the system. For each GUNT device to be upgraded with the Web Access Box, a device specific software is available: Web Access Software. The software must be purchased separately for each device.

Up to 10 end devices can be connected to the Web Access Box via WLAN, direct LAN connection or by integrating the Web Access Box into the customer's own network. End devices that are connected to the customer's own network can be used for remote learning this way. Internet access is required to use the WLAN connection.

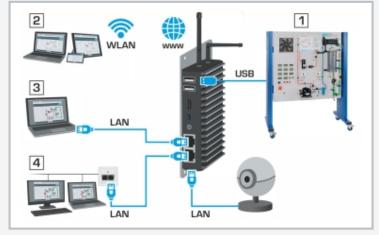
The Web Access Box is connected to the selected GUNT device via USB. The supplied IP camera is connected to the Web Access Box via LAN.

Learning objectives/experiments

- together with Web Access Software: Remote learning – Web Access Box as server, access via web browser irrespective of the system
 - display of the process schematic
 - display of the switching states
 - display of all current measured values
 - transfer of internally stored measured values for further evaluation
 - live observation of experiments
 - graphical visualisation of the experimental results



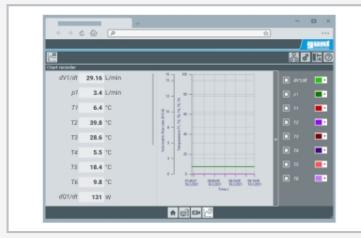
GU 100 Web Access Box



Connection of the Web Access Box shown by the example of ET 400 1 USB connection with selected GUNT device (here: ET 400), 2 connection of end devices via WLAN, 3 direct LAN connection of an end device, 4 connection of end devices by integrating the Web Access Box into the customer's own network



Screenshot of the web browser representation shown by example of ET 400: start screen 1 start screen with process diagram, 2 current measured values, 3 live stream, 4 graphical visualisation of experimental results



Screenshot of the web browser representation shown by example of ET 400: graphical visualisation of experimental results

Specification

- [1] Web Access Box as server: provide all information on a software interface using a web browser
- [2] Web browser representation with live streaming of experiments, process schematic, switching states, graphical visualisation of measured values, storage of measured values
- [3] IP camera for live stream of the experiments
- [4] device specific software required: Web Access Software
- [5] available separately for selected GUNT devices
- [6] connection of up to 10 end devices overall, via integrated WLAN module with internet access or LAN connection with the customer's own network
- [7] connection to GUNT device via USB interface
- [8] space-saving, sideways positioning of the Web Access Box on GUNT devices possible

Technical data

Web Access Box

- operating system: Microsoft Windows 10
- main memory: 4GB
- memory: 120GB
- interfaces
 - ▶ 4x USB
 - 2x LAN
 - 1x HDMI
 - 1x MiniDP
 - 1x mini-seriell
- integrated WLAN modul, internet access required

IP camera

■ connection to Web Access Box via LAN

230V, 50Hz, 1 phase; 230V, 60Hz, 1 phase 120V, 60Hz, 1 phase UL/CSA optional LxWxH: 220x140x50mm Weight: approx. 1kg

Required for operation

Web browser

Scope of delivery

- 1 Web Access Box
- 1 IP camera



GU 100 Web Access Box

Optional accessories

The corresponding Web Access Software (purchased separately) is required in addition to the selected experimental unit.

Fundamentals of th 060.10200 060.10300 060.22000 060.23000 060.36200	ermodynamics WL 102 WL 103 WL 220 WL 230 WL 362	Change of state of gases Expansion of ideal gases Boiling process Condensation process Energy transfer by radiation
Heat exchangers 060.22500 060.315C0 060.32000 Thermal fluid energ	WL 225 WL 315C WL 320 v machines	Heat transfer in the fluidised bed Comparison of various heat exchangers Wet cooling tower
061.51300 061.79600 061.81300 061.85000	ET 513 ET 796 ET 813 ET 850	Single-stage piston compressor Gas turbine jet engine Two-cylinder steam engine Steam generator
061.85100 061.85200 Internal combustior 063.11000 063.15900	ET 851 ET 852 n engines CT 110 CT 159	Axial steam turbine Steam generator, electrical Test stand for single-cylinder engines, 7,5kW Modular test stand for single-cylinder engines, 3kW
HVAC 065.35200	HL 352	Test stand for oil, natural gas and propane gas burners
Refrigeration 061.10200 061.16500 061.35100 061.35200 061.40000 061.40500 061.41100 061.41200 061.42000 061.42800 061.43200	ET 102 ET 165 ET 351C ET 352 ET 400 ET 405 ET 411C ET 412C ET 420 ET 428 ET 430 ET 432	Heat pump Refrigeration system with open compressor Thermodynamics of the refrigeration circuit Vapour jet compressor in refrigeration Refrigeration circuit with variable load Heat pump for cooling and heating operation Compression refrigeration system Refrigeration system with refrigeration and freezing chamber Ice stores in refrigeration Energy efficiency in refrigeration systems Refrigeration system with two-stage compression Behaviour of a piston compressor
Fluid mechanics 070.11200 070.14500 070.24000 070.36510 070.36520 070.42100 070.42100 070.430C0 070.450C0	HM 112 HM 145 HM 240 HM 365.10 HM 365.20 HM 421 HM 430C HM 450C	Fluid mechanics trainer Advanced hydrological investigations Principles of air flow Supply unit for water pumps Oil pump supply unit Propeller type turbine trainer Francis turbine trainer Characteristic variables of hydraulic turbomachines
Process Engineerin 083.10000 083.63000	g CE 100 CE 630	Tubular reactor Solid-liquid extraction
2E Energy & Environment061.20200ET 202061.22000ET 220061.22010ET 220.10Control unit for wind power plant ET 220.01		

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