

Calibration workstation



Workstation Frames		
TABCONH20	Concept workstation frame, high model, 2030 x 900 mm, M1000 back panels	1 x
Equipment Panels		
PANCONH20	Concept device panel, 2.0 m, high model	1 x
PANSOCKETLEU	Schuko sockets under device panel, 4 pcs	1 x
Power Supply Units		

(S1) SU1	1-phase supply unit, 230 V	1 x
Modules		
(1) ELPSL2	1-phase schuko socket outlets, 2 pcs	1 x
(2) TPS2014B	Digital oscilloscope, 100 MHz, 1 GS/s, 4 isolated channels	1 x
(3) FLUKE8846A	Digital precision multimeter, 6.5 digits	1 x
(4) ACP40	1 phase programmable AC power supply, 0-250 V, 0-4 A	1 x
(5) DCACPX400S	Variable DC power supply, 0-60 V, 20 A, 420 W	1 x
(6) M143D	Multifunction Calibrator	1 x
(7) ELPSL2	1-phase schuko socket outlets, 2 pcs	1 x
Accessories		
WHT890631	Steel shelf 1000x300 mm	1 x
WHL859156	Suspension rail M1000	1 x
WHR855001	Hook set, 20 pcs	1 x
WSK91849003	Light rail, 4 x M500	1 x
WSKTIL850	LED Light	1 x
C20PU	Chair, black, polyurethane	1 x

TABCONH20 Concept workstation frame with upright tube module

- ESD-painted steel frame with upright tube module
- Height of the upright tube module 1300 mm from table top
- L-shaped ergonomic legs
- Table top with laminate surface, durable rounded plastic edges, colour light speckled grey
- The frame includes perforated M1000 back panels between the uprights
- Accessories above the table top are attached to perforated uprights and can be positioned to suit individual needs
- Versatile and adjustable accessories facilitate ergonomic component storage and selection
- Including cable clip set for upright tubes for easy cable management
- Adjustable height: 670-1120 mm
- Adjustment screws to eliminate the roughness of the floor
- Load capacity 500 kg, evenly loaded
- Table top dimensions: 2030 x 900 mm



PANCONH20 Concept device panel

- Panel for integrated electrical equipment
- Structure of the panel made of ESD powder painted steel
- Panel equipped with modular device system: devices can be easily added and removed
- Integrated modules are covered with polyester film to ensure long lifetime for the markings in the front panel
- Energy saving LED lighting integrated at the bottom of the panel
- Panel top can be opened
- All connectors are located at the bottom of the panel which enables placing the panel against a wall
- Height from the table top can be chosen freely
- Panel with: 2030 mm, max. 7 ¾ modules



PANSOCKETLEU Schuko sockets under device panel

- 4 pcs schuko sockets under device panel, 2 pcs at both ends

SU1 1-phase supply unit

- Operating voltage: 230 V ± 10 % AC, 50-60 Hz
- Main switch for the workstation with START position
- Green indicator light
- Integrated emergency switch, reset from the main switch
- Automatic restart prevention system e.g. after power failure
- 16 A thermal overload protector
- Fault current protection 0.03 A for all devices connected to the supply unit
- Earth terminal screw
- Outlets for the device modules
- Dimensions: ½-module, 125(W) x 200(H) mm



ELPSL2 1-phase socket outlets

- 2 pcs earthed schuko socket outlets
- Dimensions: ¼-module, 62.5(W) x 200(H) mm



TPS2014B Digital oscilloscope

- Channels: 4
- Bandwidth: 100 MHz
- Sample rate: 1 GS/s on all channels
- Record length: 2500 on all channels
- Vertical resolution: 8 bits
- Vertical sensitivity: 2 mV to 5 V/div
- Time base range (s/div): 5 ns to 50 s/div
- Fully isolated and floating channels, plus isolated external trigger
- Optional power application software offers the broadest range of power measurements at its price point
- FFT standard on all models
- Advanced triggers to quickly capture the event of interest
- Easily operate the oscilloscope with traditional, analog-style knobs and multi-language user interface
- Simplify setup and operation with autoselect menu, autorange, waveform and setup memories, and built-in, context-sensitive help
- Adjust the oscilloscope to your operating environment with backlit menu buttons/display and brightness/contrast controls
- 11 automatic measurements
- Connectivity: RS-232 (USB adapter), Centronics, CompactFlash
- Dimensions: 1½-module, 375(W) x 200(H) mm
- Standard accessories: TPP0101 100 MHz, 10x passive probes (one per channel), battery, user manual, OpenChoice PC communication software, traceable certificate of calibration - NIM/NIS



FLUKE8846A Digital precision multimeter

- 6.5 digit dual display, graphics
- 2 x 4 ohms 4-wire measurement technique
- Math functions: zero, dBm, dB, MX+B, of set, DCV ratio and TrendPlot, histogram, statistics (min/max/average/standard deviation) and limit test
- Decibels (dB and dBm) with variable reference impedance and audio power measurement capability
- Remote operation via IEEE 488, RS-232 and Ethernet interface
- USB memory drive port
- Trendplot™ paperless recorder mode, statistics, histogram
- Standard accessories: Manuals, TL71 test lead set, FlukeView Forms basic
- Dimensions: Full module, 250(W) x 200(H) mm



DC voltage

Range	100 mV...1000 V
Best resolution	100 nV
Best accuracy	±(0.0024 % rdg + 0.0005 % range)

AC voltage

Range	100 mV...1000 V
Best resolution	100 nV
Best accuracy	±(0.06 % rdg + 0.03 % range)

DC current

Range	100 μ A...10 A
Best resolution	100 pA
Best accuracy	$\pm(0.05 \% \text{ rdg} + 0.005 \% \text{ range})$

AC current

Range	100 μ A...10 A
Best resolution	100 pA
Best accuracy	$\pm(0.1 \% \text{ rdg} + 0.04 \% \text{ range})$

Resistance

Range	10 Ω ...1 G Ω
Best resolution	10 $\mu\Omega$
Best accuracy	$\pm(0.01 \% \text{ rdg} + 0.001 \% \text{ range})$

Frequency

Range	3 Hz...1 MHz
Best resolution	0.1 μ Hz
Best accuracy	$\pm(0.01 \% \text{ rdg})$

Capacitance

Range	1 nF...100 mF
Best resolution	1 pF
Best accuracy	$\pm (1 \% \text{ lukema} + 0.001 \% \text{ alue})$

Temperature

Range	-200 $^{\circ}$ C...+600 $^{\circ}$ C
Best resolution	0.001 $^{\circ}$ C
Best accuracy	$\pm 0.06 \text{ }^{\circ}$ C

ACP40 Programmable 1-ph. AC power supply

- Output values: 0-250 V, 0-4 A, max. 900 VA
- Galvanic isolation
- Digital display for viewing output voltage, current and settings
- Setting accuracy and display resolution: 1 V / 0.1 A
- Measuring accuracy: voltage ± 2 V, current ± 0.1 A
- Overvoltage protection setting 0-250 V, overcurrent protection setting 0-4 A with OFF-position
- Short-circuit protected
- Output from 4 mm safety terminals or from unearthed socket (one output active at a time)
- Output ON / OFF -buttons with indicator lights
- Automatic self-test and line voltage measurement when starting
- Stability feature for stabilizing output voltage
- Firmware update possibility
- Dimensions: 1/2-module, 125(W) x 200(H) mm



DCACPX400S Adjustable DC power supply

- Output values: 0-60 V, 0-20 A, 420 W
- PowerFlex design gives variable voltage and current combinations within a maximum power range
- PowerFlex or fixed-range operation plus custom limits
- Constant voltage or constant current operation
- Variable OVP trips
- True analogue controls
- Voltage Setting: By coarse and fine controls
- Current Setting: By single logarithmic control
- Settings locking
- Independent digital voltage and current meters for each output with 4 digit resolution
- Voltage meter:
 - Resolution: 10 mV
 - Accuracy: 0.1 % of reading \pm 2 digits
- Current Meter:
 - Resolution: 10 mA
 - Accuracy: 0.3 % of reading \pm 20 mA
- Ripple & noise: Typically < 3 mV rms (CV mode)
- Switchable local or remote sensing
- View Settings
- LED indication of Output On, V/I Limits, CV, CI, Power Limit
- Silent fan-free cooling
- DC output on/off switch
- All outputs are intrinsically short circuit proof, and are protected against external voltages and reverse currents
- Output terminals: Universal 4mm safety binding posts on 19mm (0.75") spacing. Terminals can accept fixed shroud 4 mm plugs, standard 4 mm plugs, fork terminals and bare wires
- AC Input: 110 to 240 volts \pm 10 % 50/60Hz
- Dimensions: ½ module, 125(W) x 200(H) mm



ELPSL2 1-phase socket outlets

- 2 pcs earthed schuko socket outlets
- Dimensions: ¼-module, 62.5(W) x 200(H) mm



WHT890631 Shelf

- Construction made of ESD powder painted steel
- Fixed to upright tubes
- Load capacity: 50 kg
- Dimensions: 1000(W) x 300(D) mm



WHL859156 Suspension rail

- ESD powder painted steel construction
- Fixed to perforated back panel
- Width 967x100 mm



WEL806207 or WEL806211 Pick-up box

- Plastic pick-up box
- ESD protected
- Max. 9 pcs for WHL859156 suspension rail
- Dimensions: 105(W) x 165(D) x 75(H) mm WEL806207, 99(W) x 160(D) x 70(H) (WEL806211)

WHR855001 Hook set

- Hook set, attached to perforated back panels
- 20 pcs hooks e.g. for tools



WSK91849003 Light rail

- Rail can be used to attach light ergonomically above the workstation
- Structure made of ESD-painted steel
- Height and depth adjustment
- Width: 4 x M500



WSKTIL850 LED light

- Good quality, bright and long lasting light.
- Luminous flux: 3800 lm
- Illuminance: 1800 lx
- Colour rendering index: Ra 80
- Colour temperature: 4000 K



- Product measurements (W x D x H): 850 mm x 67 mm x 80 mm

C20PU Chair

- User-friendly and quick adjustability
- Large, ergonomically designed seat and backrest and lumbar support
- Black
- Polyurethane
- Height/backrest/tilt adjustment
- Castors with load-sensitive brakes
- Seat height: 440-620 mm

