

HELP3 Physics workstation



Workstation Frames		
HELP3L15	Help3 multipurpose workstation, 1460 x 580-810 mm	1 x
Equipment Panels		
DEFAULT_HELP3L15	Default panel for HELP3L15	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) OMGALP	Galvanometer -50uA..+50uA	1 x

(3) OMDM20VP	Digital voltmeter 0-20 V and ammeter 0-5 A	1 x
(4) DYM410	Digital multimeter 3 3/4 digit	1 x
(5) ELPSL2	1-phase schuko socket outlets, 2 pcs	1 x
(6) DCA305PS	Variable DC power supply, 0-30 V, 0-5 A	1 x
(7) ACA505	1 phase variable AC power supply, 0-50 V, 5 A	1 x
Accessories		
C20PU	Chair, black, polyurethane	1 x

HELP3L15 Multipurpose workstation

- Multipurpose construction: electric workstation and theory desk in one solution
- Built-in instrument panel for integrated electrical instruments, instrument panel located under a sliding table top
- Sliding table top movable forwards and backwards to enable / hide the instrument panel
- Sliding table top can be locked to prevent access to the instrument panel
- Modular instrument panel:
 - Devices can be added afterwards
 - Instrument panel is slanted to achieve best possible usability
- Integrated modules are covered with polyester film to ensure long lifetime for the markings in the front panel
- Workstation frame and instrument panel made of steel
- L-shaped ergonomic legs for more space under workstation
- Adjustable height 710-780 mm
- Adjustment screws under the workstation to eliminate the roughness of the floor
- Table top with laminate coating, durable plastic edges, colour light grey
- 4 pcs sockets in the energy channel located at the rear part of the workstations. Sockets are available also when the table top is in closed position.
- Can be equipped with upright tubes for fixing accessories such as training panel frames, shelves etc.
- Dimensions: 1460(W) x 580-810(D) mm



SU1 1-phase supply unit

- Operating voltage: 230 V \pm 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



OMGALP Galvanometer

- Quality measurement unit for current
- Mounted separately within the device panel giving easy access for operation and connections
- Connections with 4 mm safety terminals
- Range: -50 uA...+50 uA
- Display resolution: analogue meter
- Accuracy: \pm 1.5 uA



OMDM20VP Digital voltmeter and ammeter

Digital voltmeter

- Quality measurement unit for DC voltage
- Mounted separately within the device panel giving easy access for operation and connections
- Connections with 4 mm safety terminals
- Range: 0-20 V
- Display resolution: 0.01 V
- Display accuracy: \pm 0.2 V

Digital ammeter

- Quality measurement unit for DC current
- Mounted separately within the device panel giving easy access for operation and connections
- Connections with 4 mm safety terminals
- Range: 0-5 A
- Display resolution: 0.01 A
- Accuracy: \pm 0.02 A
- Dimensions: ½ I-module, 125(W) x 200(H) mm



DYM410 Digital multimeter

- 3 $\frac{3}{4}$ digit display 3999 steps
- Basic accuracy $\pm 0,5\% + 2$ digits
- Diode measurement and continuity testing
- Hold measurement .
- Relative measurement
- Duty cycle (%) measurement
- Temperature measurement with K type Thermocouple
- Backlit Facility
- Equipped with power supply
- Fuse at the front panel
- Standard accessories: manual, cable set
- Dimensions: $\frac{1}{2}$ -module, 125(W) x 200(H) mm



DC voltage

Range	100 μ V...1000 V
Best resolution	0.001 mV
Best accuracy	$\pm(0.5 \% + 2$ digits)

AC voltage

Range	100 μ V..1000 V
Best resolution	0.001 mV
Best accuracy	$\pm(1 \% + 5$ digits)

DC current

Range	10 μ A...10 A
Best resolution	0.01 μ A
Best accuracy	$\pm(0.8 \% + 2$ digits)

AC current

Range	10 μ A...10 A
Best resolution	0.01 μ A
Best accuracy	$\pm(1 \% + 5$ digits)

Resistance

Range	100 m Ω ...40 M Ω
Best resolution	0,01 Ω
Best accuracy	$\pm(0.8 \% + 2$ digits)

Capacitance

Range	1 pF...200 μ F
Best resolution	0.001nF
Best accuracy	$\pm(0,5 \% + 3$ digits)

Frequency

Range	1 Hz...500 kHz
Best resolution	0.001 Hz
Best accuracy	$\pm(0.2 \% + 2$ digits)

Temperature

Range	0...+1300 $^{\circ}$ C
Best resolution	1 $^{\circ}$ C
Best accuracy	$\pm(2 \% + 3$ digits)

ELPSL2 1-phase socket outlets

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



DCA305PS Variable DC power supply

- Output values: 0-30 V, 0-5 A
- Short-circuit protected
- Stepless adjustment for output voltage with fine tuning
- Stepless adjustment for current limitation with fine tuning
- Measurement of current and voltage with digital meters
- Output from 4 mm safety terminals
- Dimensions: ½-module, 125(W) x 200(H) mm



ACA505 1 phase variable AC power supply

- Variable transformer 0-50 V, 5 A AC
- Galvanic isolation
- Overload protection
- Output: 4 mm safety terminals
- Digital meters for output voltage and current
- Voltage measuring: 0-10 V AC, best resolution 1 mV and 10-50 VAC 10 mV, accuracy 1 %
- Current measuring: 0-5 A AC, best resolution 10 mA, accuracy 1 %
- Main switch with indicator light
- Dimensions: 1 module, 250(W) x 200(H) 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



