

Nominal 3 phase ~ line voltage indicated with one LED each for

120/208 V, 230/400 V, 400/690 V

Total line voltage range: 100 ... 690 V

Line frequency indicated with one LED each for

50 Hz, 60 Hz, 100 Hz, 200 Hz, 300 Hz, 400 Hz

Total frequency range: 15 ... 410 Hz

Reference Conditions

Ambient Temperature	+23 °C ±2 K
Relative Humidity	40 ... 60%
Battery Voltage	4.5 V ±0.25 V
Line Voltage	230/400 V ±0.5%
Line Frequency	50 Hz ±0.1 Hz
Line Voltage Waveshape	sine, deviation between effective and rectified values < 1%

Ambient Conditions

Storage Temperature	-25 °C ... +75 °C
Operating Temp.	-10 °C ... +50 °C
Relative Humidity	max. 75%, no condensation
Elevation	to 2000 m

Power Supply

Batteries	4 cells, alkaline-manganese per IEC LR6 (4 x AA-size)
Battery Voltage	4 V ... 6 V
Battery Service Life	with alkaline-manganese cells: approx. 100 hrs.

Electrical Safety

Protection Class	II per IEC 61010-1
Measuring Category	IV
Operating Voltage	600 V
Contamination Level	2
Test Voltage	5.55 kV

Mechanical Design

Protection IP40 per DIN VDE 0470 Part 1/EN 60529 Extract from table on the meaning of IP codes

IP XY (1 st digit X)	Protection against foreign object entry	IP XY (2 nd digit Y)	Protection against the penetration of water
4	≥ 1.0 mm dia.	0	not protected

Dimensions 84 mm x 195 mm x 35 mm

Weight approx. 0.3 kg with batteries

Standard Equipment

- 1 phase sequence indicator
- 3 plug-on measurement cables with contact-protected plugs 600 V CAT IV 10 A
- 3 test probes for attachment to contact-protected plugs 1000 V CAT IV 1 A / 1000 V CAT II 32 A
- 1 alligator clip for attachment to contact-protected plugs 600 V CAT IV 19 A
- 4 batteries
- 1 operating instructions
- 1 carrying case

Order Information

Description	Type	Article Number
Phase sequence indicator in HC20 carrying case	METRAPHASE 1	M620A
Accessories		
Variable plug adapter set 3.5 .. 12 mm	Z500A	Z500A
Protective rubber cover with prop-up flap and carrying strap	GH18	GTZ3212000R0001

See Measuring Instruments and Testers Catalog for additional information concerning accessories.