TECHNOLOGY FOR THERAPY

TECHNICAL DATA:

■ **Stimulation current**
Output max:
75 mA / 500 ohms per channel,
G = 25 mA / 500 ohms
Power consumption: 75 W
Rated voltage: 230 V +/- 10 %
Class: 1, Type BF
Dimensions: 345 x 133 x 348 mm
Weight: 5,5 kg

■ **Ultrasound**
Output:
max. 3 W/cm² at 1 MHz,
max. 1,0 W/cm² at 3 MHz

ACCESSORIES (STANDARD):
1 Accessory tray
4 Flexo-electrodes EF50,
incl. viscose covers
4 Velcro straps 2x80, 2x125 cm
1 Patient lead
1 Manual release key
1 Transducer, optionally
5 cm² / 2,5 cm²
1 Bottle of ultrasound gel
1 Operating Manual
1 Mains cable
1 Stimulation current therapy
booklet
1 Ultrasound therapy booklet

ACCESSORIES (SPECIAL):
additional transducer,
optionally 5 cm² / 2,5 cm²
Trolley *Expert*

OTHER ACCESSORIES:
see List of Accessories

PHYSIOMED instruments comply with the latest safety standards and the provisions of the Medical Devices Act. They are manufactured as per the current standards of quality assurance, have passed a type test and feature the statutory CE mark pursuant to Directive 93/42.

ISO 9001

CE 1275

Geprüfte Qualitätssicherung

MADE IN GERMANY

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IONOSON-*Expert*

IONOSON-*Expert*

THE COMBINATION UNIT FOR TWO-CHANNEL STIMULATION CURRENT AND ULTRASOUND

PHYSIOMED ORIGINAL — ONE BUTTON OPERATION

PHYSIOMED® ELEKTROMEDIZIN

IONOSON-*Expert*

IONOSON-*Expert* – The combination unit for two-channel stimulation current and ultrasound.

Imposing design and optimum functionality: A large **LCD Comfort Display** and the PHYSIOMED one-button-operation ensure especially good transparency and user-friendly operation.

■ STIMULATION CURRENT AND ULTRASOUND

Separate or **simultaneous treatment.** An Extensive **Indications Index** for accessing therapy optionally via a treatment proposal for ultrasound, stimulation current and simultaneous treatment.
Individual Program Memories: easily programmed and called, for frequently used standard treatment programs.

■ ULTRASOUND

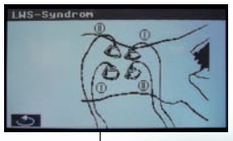
Two frequencies in both transducers: the small (2,5 cm^2) as well as the large (5 cm^2) transducer operate in the **frequencies 1 and 3 MHz.** The ergonomic high-grade steel transducers offer the highest possible safety for ultrasound output and are watertight. Continuous and pulsed ultrasound output. Coupling control: optical on unit and ultrasound probe, as well as acoustic.

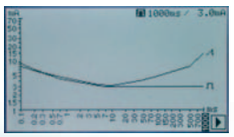
■ STIMULATION CURRENT

Flexibility of treatment by virtue of **two independent channels** with provision for setting individual intensities. For concomitant treatment of two treatment areas of different sensitivity or of two patients with different currents: e g. channel I -> "real" galvanic current G, channel II -> AMF .

Potpourris: Current sequence (e.g. 1. TENS = 5 min; 2. AMF = 3 min, 3. DF = 4 min) according to previously defined parameters.

Treatment proposals incl. images depicting the electrode placement.





I/T-curve Graphic display of I/T-curve, with memory function

TYPES OF CURRENT:

MEDIUM-FREQUENCY

IF **Classical interferential current**
Basic frequency 2-9,5 kHz
Modulation frequency 0-250 Hz
Frequency bands 0-250 Hz arbitrary
Vector function

AMF **bipolar interferential current**
Basic frequency 2 kHz-9.5 kHz;
Modulation frequency 0-250 Hz;
Frequency bands 0-250 Hz arbitrary;
Two-channel AMF;

MT **(Medium-frequency muscle stimulation)**
Basic frequency 2-9,5 kHz; Modulation frequency 0-125 Hz; contraction 1-60 s, pause 1-60 s; Two-channel MT: alternating/parallel stimulation

KOTS **(Russian Technique)**
Basic frequency 2-9,5 kHz;
T = 2, 4, 6, 8, 10 ms, auto; Modulations: sinus, triangular, rectangular
Modulation frequency 0-125 Hz;
contraction 1-60 s, pause 1-60 s;
Two-channel KOTS: alternating/parallel stimulation

LOW-FREQUENCY

G "real" Galvanic current and medium-frequency interrupted direct current (Iontophoresis)

GMC Galvanic microcurrent

DF (100 Hz)
MF (50 Hz)
CP (100 Hz / 50Hz)
LP (100 Hz / 50 Hz)
Diadynamic currents optional: galv. basis 5 %

UR trastimulation current 143 Hz
HV High voltage current 1-200 Hz; 2 Frequency bands; Bursts 1-10 Hz;
TENS 1-200 Hz; 2 Frequency bands; Bursts 1-10 Hz;
MENS Variable microcurrent
IG30 Pulsed galvanisation 12 Hz
IG50 Pulsed galvanisation 8 Hz
FM Frequency mod. current 7-14 Hz
STOCH Stochastic 10-100 Hz

HVS High-voltage stimulation 1-200 Hz; contraction 1-60 s; pause 1-60 s; 4 ramps;
Two-channel HVS

FaS Farad. surge current; contraction 1-60 s; pause 1-60 s; 4 ramps;

T/R Exponential current T = 0,1 ms-1 s; R = 1 ms-7 s; Rectangular, triangular as well as 6 other pulse shapes; manual triggering

All low frequency current except G, DF, MF, CP, LP in mono- and biphasic mode

DIAGNOSIS

Faradic excitability test
T = 1 ms; R = 20 ms; 48 Hz

Medium-frequency test acc. to Lange
T = 1 ms; ramp = 20 ms; R = 1-7 s

Accomodation quotient

Rheobase/ Chronaxy

I/T-Diagnostics
T = 0,1-1000 ms; R = 2 s; triangular/ rectangular pulse

I/T-Curve
Incl. Graphic display of I/T-curve, with memory function

Therapy unit incl.
- Trolley
- Accessory tray
- Combination unit IONOSON-*Expert*
- Vacuum application unit PHYSIOVAC-*Expert*

TECHNOLOGY FOR THERAPY

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