Battery powered Measuring System

- easy handling and mounting up to 12 month in continuous operation
- abrasion less
- monitoring of battery status

Mounting

Put the HWD in that way on the shaft, that the M4 pin screws fit into the prepared fixation drills.

Fix the HWD 15 on the shaft by correspondingly tightening up the slugs, provided with 2 mm socket, which are laterally fastened onto the hollow shaft.

Finally fix the two M4 pin screws with the adequate nuts.

Modulation to the spindle

Calculate the impulse scaling factor corresponding to the spindle pitch according to the following scheme:

Spindle pitch/1250 Example: 5 mm
pitch: 50/1250 = 0,04
List the charged factor into the register No. 8

HWD 15

The battery powered measuring system is provided with a hollow shaft (diameter 20 mm) and is directly attached on the spindle.

The position is recorded by the integrated sensor technology and is indicated on the LCD-display.

The casing possesses a robust back wall with flange possibility and torsional support. Although HWD 15 is a robust measuring system, the mechanical load should be absorbed by the spindle. The hollow shaft rotates in a maintenance-free slide bearing.

The considerable basic functions and registers allow a multifaceted use. To emphasize especially is the easy pulse rate adjustment (standard 1250 P/R). Powered by a commercial built-in battery the system works for up to 12 months in constant operation.

Register list (Registers without function will be skipped)

			Basic adjustment
P 01	X X	0 = Counting direction (+) 1 = Counting direction (-) 0 = mm 1 = Inch	01
P 05	Function keys X X	0 = Key „Set“ active 1 = Key „Set“ inactive 0 = Key inching active 1 = Key inching inactive	00
P 08	Scaling factor 0.0001 to 9.9999		1,0000
P 09	Reference value		0,0
P 99	Version	current software and version-no. is displayed	

Applications:

- ⇒ Manual and motor adjustment units
- ⇒ Valve adjustments
- ⇒ Winding mechanisms
- ⇒ Measuring value indicator for hand wheels

Application „hand wheel“



Supply of HWD15:
a commercial
1.5 V battery



Subject to modifications - ELGO Electric 2002

Battery powered Measuring System

Technical specifications

Max speed	2,5 m/s
Resolution	0,1 mm
Stock temperature	0 - 70 °C
Humidity	non condensing , 80 % max.

Display

Display	LCD, 8 mm, 6 segments, 7 decades incl. sign (+/-)
Power supply	1,5 V DC (built-in battery)
Consumption	< 1 mA (at 1,5 V)
Keyboard	membrane keypad
Protection class	IP 43 (mounted)
Operation temperature	0 - 50 °C
Dimensions	w x h x d =72 x 144 x 61,5 mm
Shaft diameter	20 mm
Axial load	20N max.
Radial load	200N max.
Speed	1500 rpm max.

Type designation HWD15 - 000 - 001

Series
HWD 15

Version
000 standard ELGO
001 First customer specified version

Supply voltage
001 1,5 VDC (battery supply)

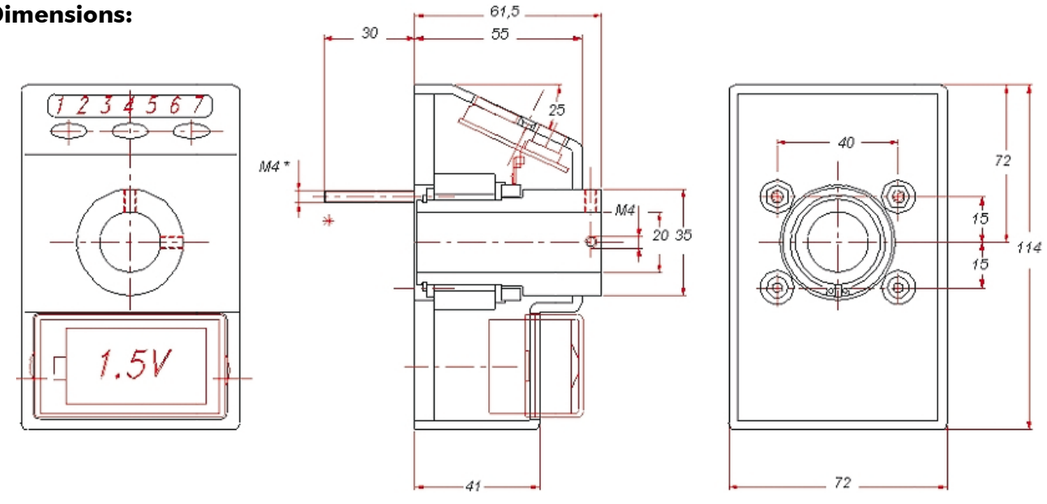
Function of the keypad

F1	1. Selecting the register surface (press for 3 sec.) 2. Selecting the register and parameter 3. Confirming the adjusted parameter
Set	decade selection during register programming
incr/abs	1. Switches from absolute to inching measurement (present value resets to zero; display shows „INC“) 2. During the register input the selected decade is increased by 1 digit on each pressing
F + Set	the reference value is set by simultaneous activation

Register setting

1. Press button „F“ for 3 sec. The display window shows P01 for register 01.
2. Press button „F“. The display window shows the corresponding register value.
3. Select decade by button „set“ and „inc/abs“ and adjust the desired value.
4. Enter new value with button „F“; display jumps on the next register (05). Repeat the whole process (2. To 4.) for the next register.
5. Press button „F“ for 3 sec. (present value appears again)

Dimensions:











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Length measuring systems
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HWD15 series

Battery powered Measuring System