![FUTECH futech-tools.com]

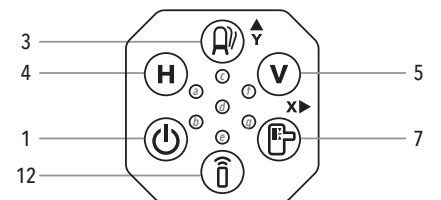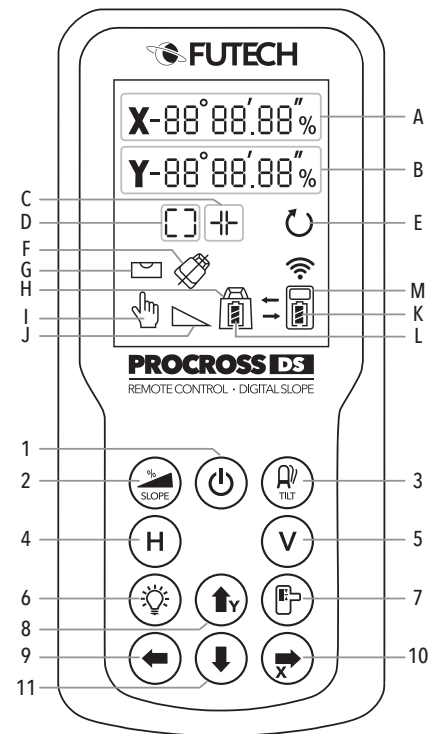## DESCRIPTION

A. Slope percentage X-axis
B. Slope percentage Y-axis
C. Active vertical lines (V1 - V2 - V3 - V4)
D. Active horizontal lines (H1 - H2 - H3 - H4)
E. Outdoor (Receivermode)
F. Tilt indicator symbol
G. Levelling symbol
H. Detection of laser device
I. Manual mode
J. Slope indicator
K. Battery status of remote control
L. Battery status of laser device
M. Remote control symbol

1. Power button
2. Slope button
3. Tilt button
4. Horizontal lines
5. Vertical lines
6. LCD Backlight
7. Receiver mode
8. UP button
9. LEFT button
10. RIGHT button
11. DOWN button
12. Remote control button

a. Horizontal LED
b. Power LED
c. TILT LED
d. Level/Slope LED
e. Remote controle LED
f. Vertical LED
g. Receiver mode LED

OPERATION WITHOUT REMOTE CONTROL

This overview only applies to the buttons on the Procross 8.0 DS itself, not the buttons on the remote control!

· Tilt-Button [3]
  (de-)activate the Tilt function

· Horizontal Button [4]
  · (de-)activate the horizontal lines of the laserdevice
    H1 / H1+H2 / H1+H2+H3+H4 / no horizontal lines
  · When slopemodus is activated:
    · (Horizontal [a] and Verical [f] LED lights up)
      Adjust slope on the X-axis (left/right)

· Vertical Button [5]
  · (de-)activate the vertical lines of the laserdevice
    V1 / V1+V2 / V1+V2+V3+V4 / no vertical lines
  · When slopemodus is activated:
    · (Horizontal [a] and Verical [f] LED lights up)
      Adjust slope on the X-axis (left/right)
    · (Verical [f] and Receiver mode [g] LED lights up)
      Adjust slope on the Y-axis (up/down)

- Power button [1]
  - Short press the button to set the laserdevice on/off
  - Long press (>2sec.) to (de-)activate the slopemodus

- Receiver button [7]
  - (de-)activate the receiver mode.
    - Press 1 time: Receiver mode is activated, saving 35% battery power.
    - Press 2nd time: Receiver mode is activated, saving 65% battery power.
    - Press 3rd time: Receivermode is deactivated.
  - When slopemodus is activated:
    - (Verical [f] and Receiver mode [g] LED lights up)
      Adjust slope on the Y-axis (up/down)

- Remote controle button [12]
  - (de-)activate the connection with the Remote contol.

▣ OPERATION WITH REMOTE CONTROL

You must activate the remote function on the laser device in order to use this device with the remote control. Press the Remote control button [12] to activate the remote funtion. The Remote control LED [e] will glow blue.

■ SETTING ON/OFF THE DEVICE

- Press the Power button [1] on the remote control to (de-)activate the laser device. The screen of the remote control shows the battery status for the laser [L] and the remote control [K] as well the activated laser lines [C] [D].
- The levelling symbol [G] flashes while levelling the laser. When te device is complete levelled, the levelling symbol [G] will be constantly visible.
  On the decive, the level/slope LED [d] will flash green during levelling and will be constantly shine when the device is levelled.

- *PLEASE NOTE THAT SETTING ON THE LASERDEVICE IS NOT POSSIBLE AFTER SETTING OFF THE LASER WITH THE POWER BUTTON ON THE DEVICE.*

■ HORIZONTAL LINES

By pressing the Horizontal lines button [4] on the remote control you (de-)activate the horizontal laserlines.
- H1 / H1+H2 / H1+H2+H3+H4 / no horizontal lines

■ VERTICAL LINES

By pressing the Vertical lines button [5] on the remote control you (de-)activate the horizontal laserlines.
- V1 / V1+V2 / V1+V2+V3+V4 / no horizontal lines

■ BACKLIGHT

To offer yu more visibility, the display of the remote control has a backlight. (De-)activate this backlight by pressing the LCD Backlight button [6].

■ TILT-FUNCTION

The TILT function prevent measuring errors. For example when you use the laser device in a shaky environment or on a windy place, or when someone hits the laser by accident, it can happen the laser will be replaced a little, without you noticed it. With this TILT function the laser will no longer project laserlines and sounds an alarm to attent you there is maybe something no longer correct.

· After setting on the Procross 8.0 DS, the TILT function will be prepares automati-
cally (TILT LED [c] flashes slowly). Approx. 60 seconds after the device is levelled
and in case there was no manipulation by the user during these 60 seconds, the
TILT fucntion will be active (TILT LED [c] flashed fast).
During the countdown and when the Tilt fucntion is active, the tilt indicator sym-
bol [F] is continiously visible on the screen of the remote control

· The laser is tilted
When there has been an impact on the laser device, it will go into tilt. An alarm
will sound. The TILT LED [c] will now light up red continuously and the laser
beams will be turned off. The Tilt indicator symbol [F] and the Levelling symbol
[G] on the screen of the remote control starts flashing.
You must now check the measurement again before continuing. You can re-acti-
vate the laserlines by pushing the Tilt button [3] on the device or on the remote
control (if the remote function is activated). The TILT LED [c] will turn off.
After checking the measurement, you can re-activate the tilt function bij pushing
the Tilt button [3]. The TILT LED [c] will start flashing slowly again. After approx.
60 seconds the Tiltfunction will be active again.

· Sensitivity of the Tilt function
In exceptional cases it is recommended to use a slightly less sensitive tilt func-
tion. You can lower the sensitivity of this tiltfunction by long press the receiver
button [7] on the laser device (not on the remote control). The LED indicators of
the Horizontal [a] and/of Vertical [f] lines (this depends on which lines are active)
will start flashing. The sensitivity of the tilt function is now lower.
Keep in mind that a lower sensitivity increases the chance of measuring errors.
To turn the sensitivity back to normal, long press the receiver button [7] again.
The LED indicators of the Horizontal [a] and/of Vertical [f] lines (this depends on
which lines are active) will no longer flash flash, but light up continiously.

■ **SLOPE FUNCTION**

The Futech Procross 8.0 DS has 3 different types of slope functions: Manual slope,
Electronic slope, Digital slope.

· *IT IS NO LONGER POSSIBLE TO (DE-)ACTIVATE LASERLINES USING THE DEVICE KEYPAD AS
LONG AS THE SLOPE FUNCTION IS ACTIVATED. ACTIVATE THE DESIRED LASERLINES BEFORE
ACTIVATE THE SLOPE FUNCTION OR USE THE REMOTE CONTROL TO CHANGE THE ACTIVE
LASERLINES.*

└ **Manual slope**

Activate the manual slope function by pressing the power button [1] of the device
for approx. 2 seconds OR by pressing the slope button [2] on the remote control.
The Level/Slope LED [d] of the device becomes red and the display of the remote
control shows the Slope indicator [J] and the Manual mode sign [I].

You can use the rotating legs of the Amphibase to gently position the device at
the desired angle. You can also physically position the unit at the desired slope by
using an inclined surface or by using a slope adapter (not included).

To turn off the manual slope, press the power button [1] for approx. 2 seconds OR
press the slope button [2] on the remote control again. The Level/Slope LED [d]
starts blinking green (levelling) and the Levelling symbol [G] flashes on the display
of the remote control untill the device is levelled again.

└ **Electonic slope**

To use the electronic slope op the Procross 8.0 DS, you have to activate the man-
ual slope function of the device by pressing the power button [1] of the device for
approx. 2 seconds OR by pressing the slope button [2] on the remote control.
The Level/Slope LED [d] of the device becomes red and the display of the remote
control shows the Slope indicator [J] and the Manual mode sign [I].

· Set an electronic slope using the device keypad
When the manual slope is active, standard the Horizontal LED [a] and Vertical LED [f] are light up. This means you can use the Horizontal lines button [4] and the Vertical lines button [5] to set the desired slope on the x-axis (indicated on the keypad of the device).
Switch to the y-axis by pressing the Receiver button [7]. The Vertical LED [f] and the Receiver Mode LED [g] are light up. This means you can use the Vertical lines button [5] and the Receiver button [7] to set the desired slope on the y-axis (indicated on the keypad of the device).
To switch back to the x-axis, press the Horizontal lines button [4].

· Set an electronic slope using the remote control
When the manual slope is active you can use the 4 arrows on the remote control (UP button [8], LEFT button [9], RIGHT button [10], DOWN button [11]) to set the desired slope. The LEFT button [9] and RIGHT button [10] are used to set the slope on the x-axis, the UP button [8] and DOWN button [11] to set the slope on the y-axis.

To turn off the manual slope, press the power button [1] for approx. 2 seconds OR press the slope button [2] on the remote control again. The Level/Slope LED [d] starts blinking green (levelling) and the Levelling symbol [G] flashes on the display of the remote control untill the device is levelled again.

Digital Slope

The Procross 8.0 DS offers the possibility to set a digital slope. You can add the percentage for the x- and y-axis and the device will set the slope for you.

Activating the digital slope can only by using the remote control. Make sure the Remote function of the Procross 8.0 DS is activated. To activate the remote function, press the Remote controle button [12].

· Press the Slope button [2] for approx. 2 seconds. The display shows Slope percentage of the X-axis [A] and the Y-axis [B] (both 0% by activating).

The value of the X-axis [A] blinks, this means that the slope can be set on this axis. Set the desired slope percentage using the UP [8] or DOWN [11] button.

Press the LEFT [9] or RIGHT button [10] to go to the Y-axis. The Y-axis value [B] starts blinking. Set the desired slope percentage using the UP [8] or DOWN [11] button.

When the slope percentages for X- and Y-axis are set on the remote control confirm this by pressing the TILT button [3]. This will send the choosen slope to the laser.

· *BEFORE SETTING THE LASER IN THIS SLOPE IT STARTS LEVELLING FIRST.*
DURING THIS LEVELLING, THE X AND Y FROM THE SLOPE PERCENTAGE INDICATORS [A] [B] ON THE DISPLAY OF THE REMOTE CONTROL AND THE RED LEVEL/SLOPE LED [d] WILL BLINK.
AFTER THE MOTORISED PENDULUM IS LEVELLED, IT WILL SET THE SLOPE YOU'VE SET ON THE REMOTE CONTROL. WHEN THE SLOPE IS SET, THE RED LEVEL/SLOPE LED [d] WILL STOP BLINKING.
(IN SOME CASES THIS OPERATION CAN TAKE UP TO APPROX. 60 SECONDS)

· To set a new slope, press the LEFT [9] or RIGHT button [10] to enter the setting again and repeat the steps above.

· To turn off the digital slope, press the slope button [2] for approx. 2 seconds. The laser will start levelling itself.

BATTERY

Use only the battery (14.8V, 3400mAh - Art.nr.: H60031) and the charger (16.8V, 2.6A - Art.nr.: H60032) supplied by the Procross 8.0 DS.
The remote control needs 4x AAA Alkaline batteries (LR03).

You can check the battery power by pressing the powerbutton on the device. The 4 LED indicator next to this button will show you the battery power
(4 LEDS on = 100% ➜ 1 LED on < 25%)
You can also check the battery power on the display of the remote controle, when connected. The battery status of laserdevice indicator [L] shows the power of the laser device; The battery status of remote control indicator [K] the power of the remote control.

When the battery of the laser runs out of power, the projected laserlines starts to blink slowly. The Power LED will start blinking red

PAIRING THE REMOTE CONTROL

Under normal circumstances, when the units are shipped from the factory, a paired remote control is included. In exceptional cases it may happen that this link has not been made. In that case, or when you need to replace a defective remote control with a new one, you can pair it with your Procross 8.0 DS following this steps:

· Shut down the laser
· Place the batteries in the new remote control. Do not turn on the remote control yet.
· On the remote contol, press the Slope [2] and Tilt [3] button at the same time and hold.
· Press the power button [1] of the remote while holding the Slope [2] and Tilt [3].
· The detecion of laser symbol [H] toghether with the remote control symbol [M] starts blinking at the display.
· Press the power button [1] of the laser to turn on the laser.
· When the detecion of laser symbol [H] and the remote control symbol [M] no longer blinks on the screen, the pairing is done.