

xPULSE

Incremental programmable Encoder



- **Universal encoder interface**
- **Encoder outputs A, B, Z and /A, /B, /Z**
- **Power supply 5-30 volts DC**

Operating Instructions

PPR PROGRAMMING – Buttons procedure (start after Power Up)

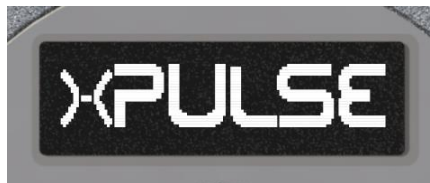
On board setup is done by P1 and P2 buttons on cover.



1. On power on display is black.



2. Press P1 + P2 until display is on.



3. Screen after display initialization.

Red Highlighted line on bottom is time out countdown, display will automatically power off when countdown reach the end.



4. Press P2 to start PPR modification. First digit blink (red highlighted on image).



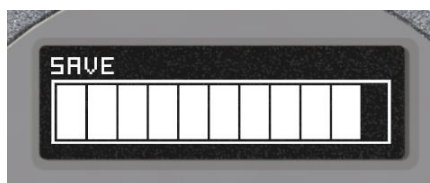
5. Press P2 change blinking digit value. On each P2 press digit will increase by 1. Press P1 to go to next digit.



6. After the 5th digit, following screen is showed. Press P1 to save new PPR o press P2 to abort saving.



7. On saving process.



8. Press P1 to go back home screen.



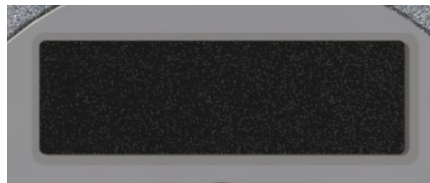
PPR, INDEX, LEAD PROGRAMMING – Bluetooth procedure

1. Install xPULSE - Android App:
 - Save apk file on smartphone memory.
 - Go to phone Settings → Security and enable “App installation from unknown source”. (menu depend by phone model and brand).
 - Go back to apk file on smartphone memory and open it.
 - Ignore all warning about using unknown source app and install.

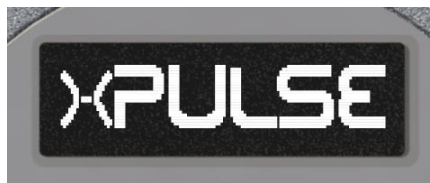
2. Pairing xPULSE Encoder:
 - Power Up Encoder.
 - Go to Phone Bluetooth Settings.
 - Search for new Bluetooth devices.
 - Pair with founded xPULSE Encoder, standard PIN code “1234”

3. Enable xPULSE Encoder to connect to Android App:
 - Power Up Encoder.

1. On power on display is black.



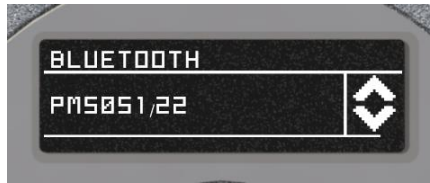
2. Press P1 + P2 until display is on.



3. On Home Screen, press P2 to activate Bluetooth.



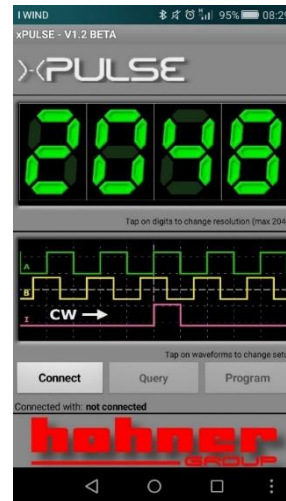
4. Now encoder is ready to be connected by Bluetooth.



5.

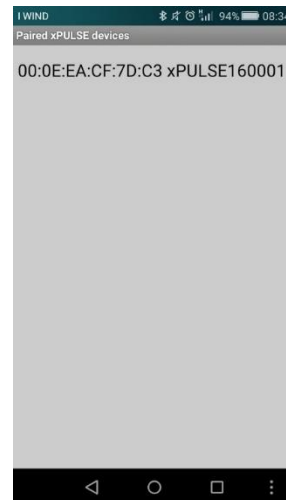
Open xPulse Android App on your smartphone.

Tap on **Connect** button to connect to xPULSE Encoder.



6.

Tap on xPulse device.



7.

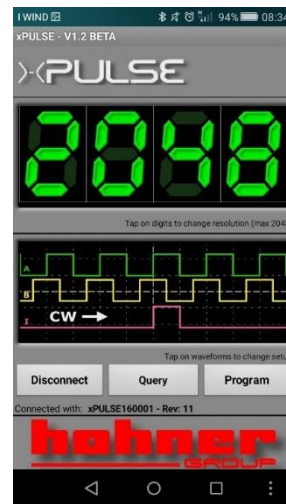
Next message show Encoder ID and Firmware revision.

Tap on **OK** to close message.



8.

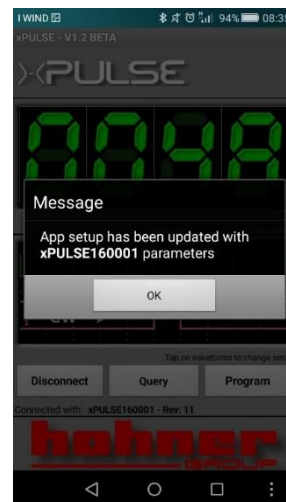
Tap on **Query** button to request actual programmed xPULSE Encoder parameters.



9.

Next message inform that Encoder Parameters have been updated.

Tap on **OK** to close message.



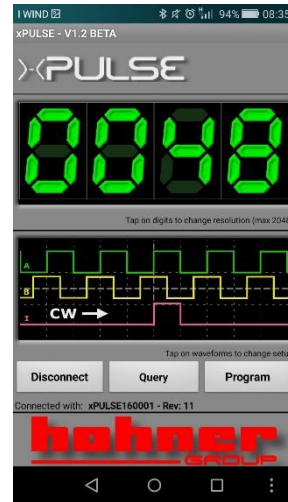
10.

Now App is updated with Encoder parameters.

Tap on resolution digits to change resolution.

Example:

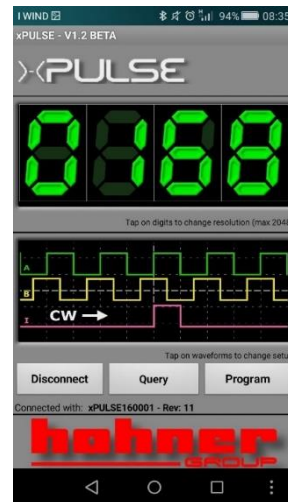
Tap third digit to switch from 0048 to 0148



11.

Example:

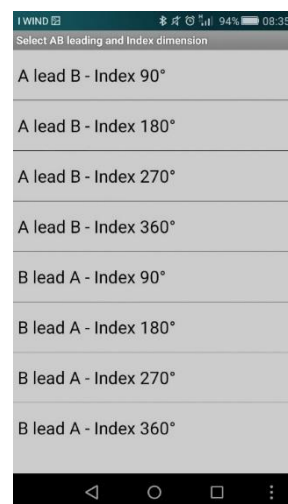
Tap twice on second digit to switch from 0148 to 0168



12.

Tap on Waveforms picture to change channels leading and Index width.

Then tap on desired leading/Index arrangement.



13.

Waveforms picture is updated respect new leading and Index.

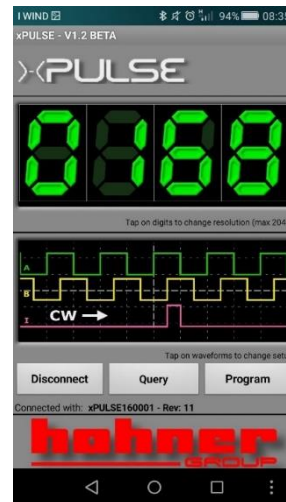
Tap on **Program** button to start xPULSE Encoder programming.

Wait until programming message is closed.



14.

xPULSE Encoder is now programmed with selected resolution, leading and Index.



EXTRA FEATURES – Angle shaft display procedure (start after Power Up)

15. On power on display is black.



16. Press P1 + P2 until display is on.



17. On Home Screen, press P2 to activate Bluetooth.



18. On Bluetooth Screen, press P2 to activate Angle visualization.



19. On Bluetooth Screen, press P2 to activate Angle measure.



Revision History

| Release | Release Date | Chapter | Modification | Page |
|---------|--------------|---------|---------------|------|
| A3 | 27-10-2022 | - | Main update | - |
| A2 | 12-09-2019 | - | Minor changes | - |
| A1 | 08-02-2018 | - | Emission | - |