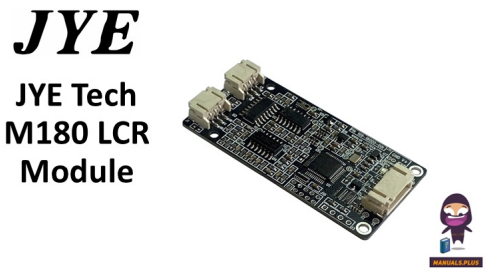


JYE Tech M180 LCR Module User Manual

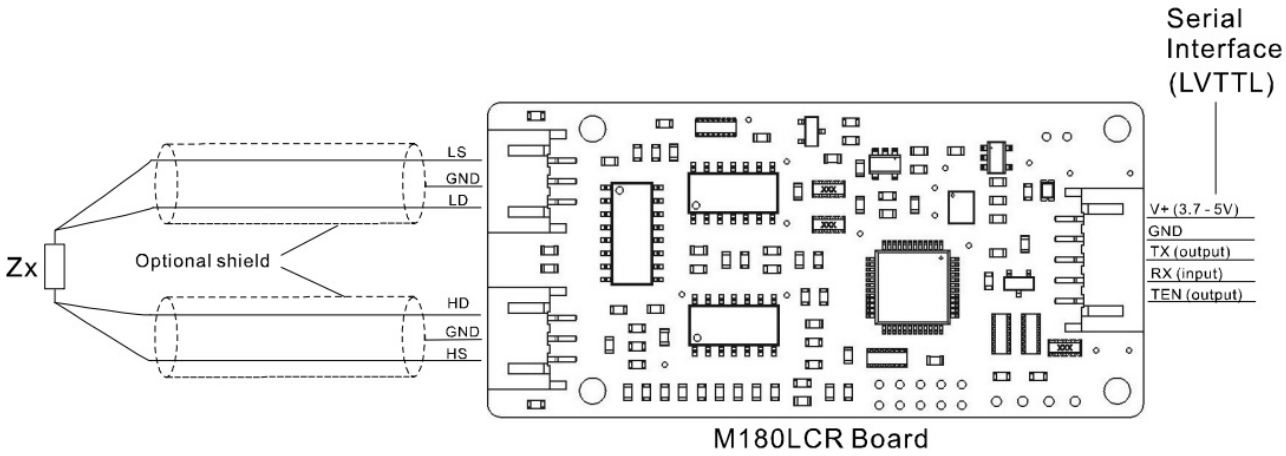
Contents

JYE

JYE Tech M180 LCR Module

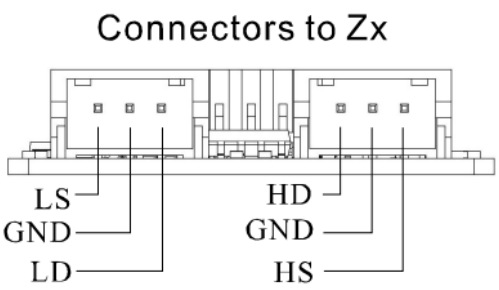
Measurement Connection

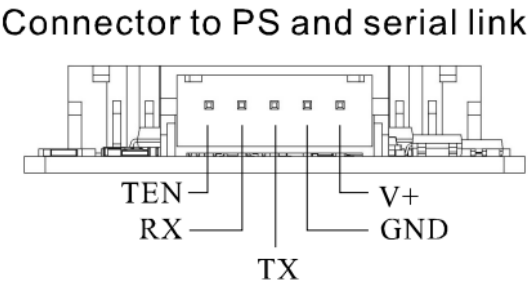
Please refer to the drawing below for connections. Connect the left-hand side terminals to the object to be measured with two pairs of wire (shielded wire recommended for long distance). Connect the right-hand side terminal to a host. Please note that the power supply voltage should not be higher than 5V



When power supply is applied, the LED on M180 board will quick blink twice and then blinks in about 1 Hz, indicating the board is in normal working state.

- Connector type: PH2.0 series pinheader.
- **Pin pitch:** 2.0mm
- **Pinout**: see the drawings below





The Serial Interface

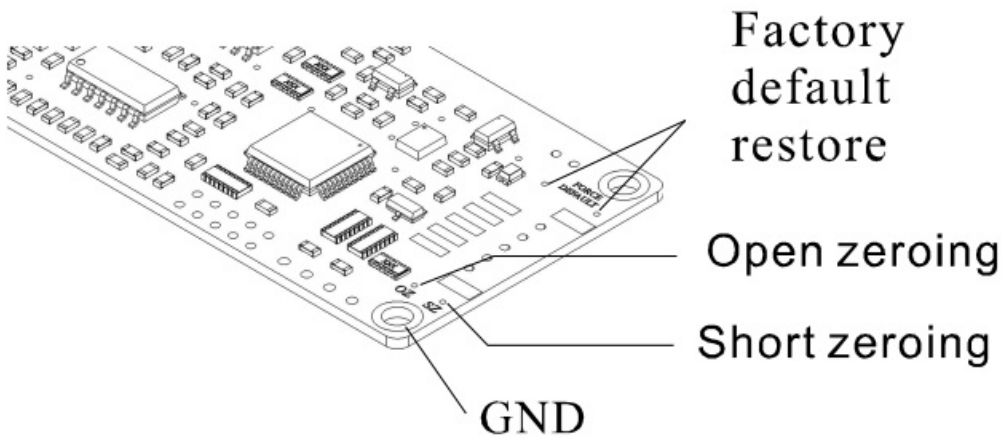
All the operations of M180 are through its serial port. Operations commands and measurement results are transferred in either text format (ASCII coded) or binary format. Please refer to the document “M180 Serial Interface” for details. The serial transmission parameters are: 8 data bits, 1 stop bit, no parity, 115200bps.

Factory Default Restore and Zeroing

In addition to performing factory default restore and zeroing by serial commands, these operations can also be done by hardware.

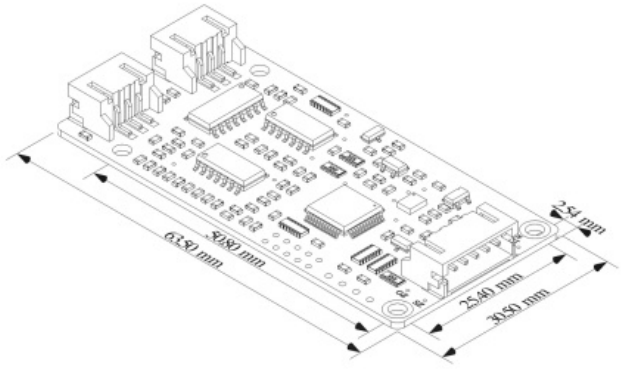
- Factory default restore – Short the two pads marked FORCE DEFAULT for 2 seconds
- Open zeroing – Short the pad marked OZ to ground for 2 seconds
- Short zeroing – Short the pad marked SZ to ground for 2 seconds

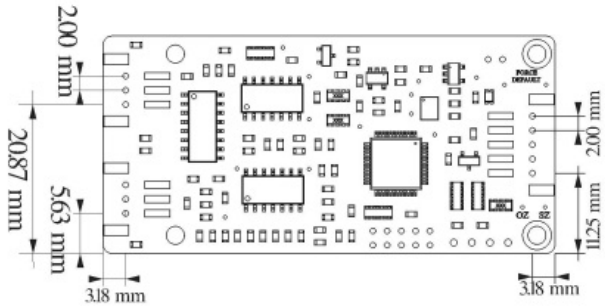
At zeroing the LED will be fast blinking. It will resume 1 Hz blinking after zeroing is done. The duration of zeroing time depends on the measurement cycle selected. The longer the measurement cycle, the longer the zeroing time.



Dimensions

- Board size: L63. 5mm x W30. 5mm
- Board thickness: 7mm
- Mounting holes: <t>2. 5mm X 4

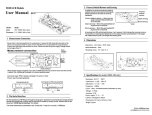




Specifications (for model 18000-1 OK only)

- Resistance: 0.01 Q – 2M Q
- Capacitance: 0.lpF – 500µF
- Inductance: 0.1 µ H – I OH
- Frequency: I 0KHz
- Cycle: I Oms – 65s/measurement (selectable by user) Voltage: 0.5Vpp
- Accuracy: 0.5%
- Power supply: 3. 7V – 5V
- Current consumption: 50mA
- Dimensions: 63.5mm x 30.5mm x 7mm
- Weight: 6 gram

Documents / Resources

	JYE Tech M180 LCR Module [pdf] User Manual M180 LCR Module, M180, LCR Module, Module

References

- User Manual