Prisma DI

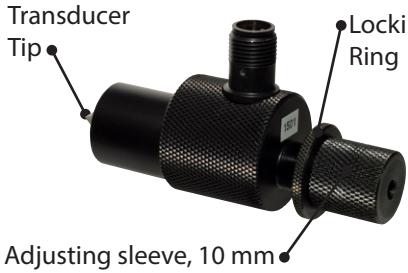
DI-5

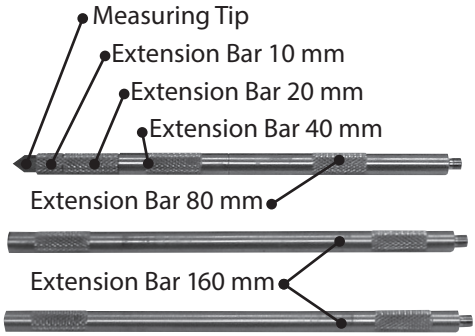
MANUAL

INSTRUMENT

PRISMATIBRO

INSTRUMENT OVERVIEW





HOW TO USE THE INSTRUMENT

Prisma DI

1. **Ensure that the cable is properly connected.**
2. **Select the applicable extension bar(s).**
   Don´t fit the transducer yet.
3. **Push POWER button and hold shortly.**
   Check the battery level when battery symbol show up.
   If battery level is low charge the battery with the enclosed charger.
   Follow the Charger manual.
   Note!
   Use only the charger delivered with instrument.
4. **Push LIGHT button if needed.**
   The backlight LEDs will light for 15 sec after every button push.
5. **Push RESET button**
6. **Fit the transducer between the crank webs in the punch marks** and make sure to use the cable magnet which helps keeping the cable stable during the measurement.
   Use the adjusting thread until the instrument indicates between +/- 0.500 mm and preferably close to zero, then tighten it with the locking ring to maintain fixed length.
7. **Push ZERO button.**
8. **Rotate crankshaft and check deflection by normal procedure.**
9. **Note the results,** and keep them to compare with the next measurements.
10. **Remove the transducer by pressing it to one side.**
    Note!
    It is normally unnecessary to unlock the adjuster.
11. **Fit the transducer into the next crank web position.**
12. **Repeat the procedure from step 6.**

NOTE 1

If the DI-5 is not used for a long time, then it´s necessary to charge the battery at least once a year.

NOTE 2

Don't use the charger as a power supply. It's only for charging the Li-Ion battery.

FACTS ABOUT PRISMA DI-5

TOLERANCE

Prisma DI-5 has a tolerance of max. 0.006 mm in the range of +/- 0.500 mm, max 1% in the range of +/- 0.500-1.000 mm and max 2% in the range of +/- 1.000-2.000 mm.

HOW TO ACHIEVE OPTIMUM RESULTS

An accurate measurement result can be achieved if both transducer and the measured object (Crankshaft) are having the same temperature so that the transducer temperature is not changed during the measurement.
If the transducer's temperature differs from the measured object (Crankshaft) temperature, an error value of approximately 0.002mm/°C can be experienced.
That's why the transducer should as far as possible, be temperature-acclimatized to the measured object (Crankshaft) temperature before starting with the measurement.

MAGNET

It's very necessary to use the magnet which is attached to the cable.
It helps keeping the cable stable during the measurement and accordingly an accurate measurement results can be achieved.

SAFETY INSTRUCTIONS

- Be careful with tools that may cause short circuit at the battery charge port.
- Make sure to use only the original charger supplied with the Prisma DI-5.

TROUBLESHOOTING

- If the display is lighting up without any readings then please press on the "POWER" button for 3 seconds to switch off the device and try to start it again.
- If the Prisma DI-5 is not used for a long time or not being charged for at least once a year then it may be difficult to start up the device and accordingly a battery reset can probably help to have the Prisma DI-5 up and running again.

  To reset the battery please do as follow

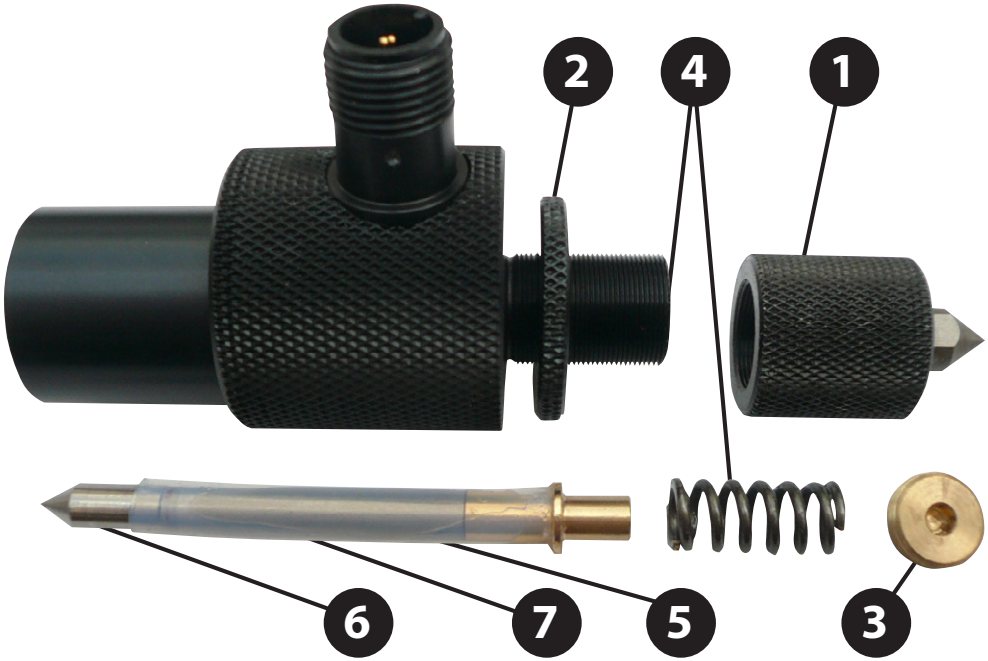
  1. Remove the left cover of the display unit.
     The cover which includes the battery charge port.
  2. Pull out the battery contact and put it back again, the display will start up and go down again.
  3. Remount the left cover

MAINTENANCE

- The calibration certificate supplied with the Prisma DI-5 is valid for 3 years. Please contact us if you would like to re-calibrate it.
- Make sure that the extension bars and measuring tips are in good condition and replace it if it's needed.

CHANGE TRANSDUCER TIP

1. Remove adjusting sleeve 1 and locking ring 2
2. Unscrew the brass nut 3
3. Pull out the spring 4
4. Pull out the complete tip unit
5. Remove the teflon cover 5 if mounted
6. Unscrew the tip 6 from the core 7 and mount the new transducer tip
7. Remount in opposite order



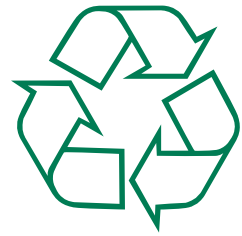
SPARE PART LIST

ITEM NO	DESCRIPTION
412-2005	Transducer Standard, min 89 mm including measuring tip 10 mm
412-2214	Transducer Tip, Standard
412-2643	Adjusting sleeve, Standard, 12 mm
412-2794	Locking Ring, Standard, 12 mm
412-2893	Cable 7p/5p DIN, 3,6 meter
412-2897	Cable 7p/5p DIN, 7 meter
412-2899	Magnet to be Attached to cable
423-3005	Transducer Small, min 60 mm, including measuring tip 7 mm **Note!** *This item should not be ordered as a spare if the same type was not supplied with the original kit from the factory*
423-3637	Adjusting sleeve, small 10 mm
423-3641	Locking Ring, Small, 10 mm
423-3242	Transducer Tip small 7 mm
434-4758	Transducer Tip, 17 mm
458-5000	Extension Bar Set: 2x160 mm, 1x80, 40, 20, 10 mm, 10 mm measuring tip
458-5107	Extension Bar, 10 mm
458-5160	Extension Bar, 160 mm
458-5205	Extension Bar, 20 mm
458-5402	Extension Bar, 40 mm
458-5809	Extension Bar, 80 mm
458-6000	Spare Tips Set: Transducer Tip Standard & 17 mm, Measuring Tip Standard & 14 mm
458-6074	Measuring Tip, small, 7 mm
458-6106	Measuring Tip, Standard, 10 mm
458-6123	Measuring Tip, 14 mm
401-1901	Battery Li-Ion with 3 wires connector
501-1992	Charger for Li-Ion battery
501-2001	Prisma DI Plastic Case Black 280x200x130 mm

RECYCLING

Decommissioning and Recycling of Prisma DI-5

- The metal parts to be recycled as metals
- The electronic parts to be recycled as electronics
- The plastic case/bag to be recycled as plastic
- The Lithium Ion battery to be recycled as Dangerous Goods



Prisma DI-5C

- Made In Sweden
- Easy To Use
- Resolution 1/1000 mm
- Trickle Charge
- **Transfer to Windows-PC**

Prisma DI-5

- Made In Sweden
- Easy To Use
- Resolution 1/1000 mm
- Trickle Charge

PRISMATIBRO

ADDRESS Järnvägsgatan 19, SE-543 50 Tibro
SWITCHBOARD +46 504 400 40
WEB prismatibro.se
E-MAIL contact@prismatibro.se