

# Prisma DI

DEFLECTION INDICATOR  
CRANKSHAFT MEASUREMENT



## DEFLECTION MEASUREMENT

Most engineers are familiar with the importance of regular checks on diesel engine crankshafts and cylinder liner. The old dial gauge for crankshaft alignment checks were time-consuming, unpleasant, dirty and gave uncertain accuracy. By using Prisma Tibro's electronic Deflection Indicator DI-5 series the task will be much easier and the accuracy will be improved. The Deflection Indicator DI-5 series has been used by large numbers of engineers in over 90 countries worldwide. Our customers are diesel engine manufacturers who equip their engines with an instrument for the service program, service companies and shipping companies.



## CRANKSHAFT MEASUREMENT

Four push buttons on the DI-5C panel are used to select, change and accept values on the display such as temperature, engine number, number of cylinders, measurement direction and so on. Just push the OK button to store the value. On completion of the first cylinder, move the transducer to the next cylinder and store measurement values. The generous measurement range allows the transducer to be moved between cylinders without mechanical adjustment. When all cylinders are completed soft copy can be downloaded to a PC for reference and future comparisons.

## SERIES

	Prisma DI-5		Prisma DI-5 Small	Prisma DI-5C		Prisma DI-5C Small
Memory & transfer to PC	No		No	Yes		Yes
Export as Excel	No		No	Yes		Yes
Transducer	89 mm	100 mm	60 mm	89 mm	100 mm	60 mm
Measuring distance	89-565 mm	100-570 mm	60-536 mm	89-565 mm	100-570 mm	60-536 mm
Measuring range	+/- 2.048 mm		+/- 1.000 mm	+/- 2.048 mm		+/- 1.000 mm
Resolution	0,001 mm					
Zero balance range	+/- 2.048 mm		+/-1.000	+/- 2.048 mm		+/-1.000
Zero drift	0.001 mm / 5 minutes					
Instrument operating range	0-55°C / 32-130°F					
Transducer operating range	0-80°C / 32-175°F					
Battery	3.6 V Lithium Ion, rechargeable					
Battery Life	10 hours / charge, shelf life 5 years					
Extension bars (invar alloy)	10, 20, 40, 80 and 2 x 160 mm					
Cable length	7 meters					
Net Weight	3,0 kg					
Gross Weight	3,5 kg					
Dimensions:	190 x 167 x 50 mm					
Instrument	190 x 167 x 50 mm					
Transducer	Ø 31 x 81 mm		Ø 22 x 56 mm	Ø 31 x 81 mm		Ø 22 x 56 mm
Case	280 x 200 x 130 mm					



A pleasant and clean operation comparing to use the old dial gauge.



Download measurements to your computer to store, track, print and compare your engine wear.



Measure deflections at the resolution of 0,001 mm



Rechargeable battery operated for portable use



Large measuring distance 60-574 mm, with different kind of transducers.



USB connection to PC



Export to Excel from Prisma DI-5C

## ANALYZE DATA ON YOUR COMPUTER

The supplied software with the deflection indicator Prisma DI-5C handles the measurements taken by transferring the data to your PC to evaluate and compare, all with graphs and printouts, and more over the measured data can be exported to Excel by installing Prisma DI-5C Software.



## EXPORT TO EXCEL

More info on website: [prismatibro.se](http://prismatibro.se) – Search for “Export to Excel”.

### MAIN PAGE

MAIN PAGE						
Document Number	14150417	Install number				
Ship / Name / Plant		Crankshaft Ident.				
Engine Type	Main Engine	Measuring direction	Clockwise			
Engine NR	10	Cylinders in total	4			
ENGINE CONNECTED TO		ENGINE INSTALLED ON		TEMPERATURES		DRAFT
Water Brake	No	Steel Chocks	No	Engine Condition	Warm	Fore
Alternator	No	Chockfast	No	Ambient	40	Aft
Gear	No	Rubber Cushions	No	Lubricating Oil	70	Trim
Other	No			HT Cooling Water	80	
Free End PTO	No	CLUTCH				Bore/Stroke
						Running Hours
Place						Time between stop and indicating
Name						Engine running continuously before indicating
Date	150417					
Rem						

### SINGLE PAGE

SINGLE PAGE			LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5	LEVEL 6	LEVEL 7	LEVEL 8	LEVEL 9	LEVEL 10
Document Number	14150417	Pos A	0,029	0,015	- 0,173	- 0,005	0,029	0,015	- 0,173	- 0,005	0,029	0,015
Name / Ship / Plant		Pos B	0,028	0,031	- 0,111	- 0,027	0,028	0,031	- 0,111	- 0,027	0,028	0,031
Engine Nr	10	Pos C	- 0,015	0,030	0,078	- 0,056	- 0,015	0,030	0,078	- 0,056	- 0,015	0,030
Engine Type	Main Engine	Pos D	- 0,023	- 0,044	- 0,036	- 0,039	- 0,023	- 0,044	- 0,036	- 0,039	- 0,023	- 0,044
Cylinders In Total	4	Pos E	- 0,013	0,119	- 0,122	- 0,015	- 0,013	0,119	- 0,122	- 0,015	- 0,013	0,119
Limit Value	0,500	Max Deflection	0,052	0,052	0,052	0,052	0,052	0,052	0,052	0,052	0,052	0,052

### COMPARE PAGE

COMPARE PAGE				LEVEL 1		LEVEL 2		LEVEL 3		LEVEL 4		LEVEL 5	
	DOC 1	DOC 2		DOC 1	DOC 2	DOC 1	DOC 2	DOC 1	DOC 2	DOC 1	DOC 2	DOC 1	DOC 2
Document Number	14150417	14150418	Pos A	0,029	0,015	- 0,173	- 0,005	0,029	0,015	- 0,173	- 0,005	0,029	0,015
Name / Ship / Plant			Pos B	0,028	0,031	- 0,111	- 0,027	0,028	0,031	- 0,111	- 0,027	0,028	0,031
Engine Nr	10	12	Pos C	- 0,015	0,030	0,078	- 0,056	- 0,015	0,030	0,078	- 0,056	- 0,015	0,030
Engine Type	Main Engine	Main Engine	Pos D	- 0,023	- 0,044	- 0,036	- 0,039	- 0,023	- 0,044	- 0,036	- 0,039	- 0,023	- 0,044
Cylinders In Total	4	4	Pos E	- 0,013	0,119	- 0,122	- 0,015	- 0,013	0,119	- 0,122	- 0,015	- 0,013	0,119
Limit Value	0,500	0,500	Max Deflection	0,052	0,052	0,052	0,052	0,052	0,052	0,052	0,052	0,052	0,052



## CHOOSE PRISMATIBRO

### QUALITY AND SAFETY

- Certified according to ISO 9001
- In-house development, production, sales, and service organization
- Flexibility and innovation
- Continuous improvement
- Favorable delivery time

### SUSTAINABILITY

- Sustainable products with long lifespan
- Certified according to ISO 14001
- Production based on customer orders
- Philanthropic work and sponsorship
- Environmentally-friendly features
- Contributes to the SDGs:



### GLOBAL AND LOCAL

- Development and manufacturing in Tibro, Sweden
- Products in 118 countries
- Further expansion in terms of geography and volume

### EXPERIENCE AND CONTACT

- 35 years of experience
- Addtech Group
- Dedicated staff
- Flexibility and continuity
- Strong customer trust
- Personal and quick support

*"You can deliver on time!"*

*"We only use your products because we know that they will meet our expectations."*

*"Thank you once again for your persistent effort to meet our requests."*

### CUSTOMERS

*"Yes, everything is perfect. Thank you for the excellent service!"*

*"Flexibility and quick actions – two of our characteristics"*

### EMPLOYEES

*"The best part is that we provide support for a long time."*

*"We strive for quality and continuous improvement."*