

Gearbox analysis

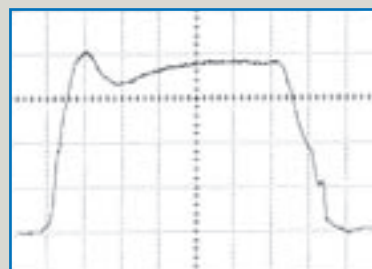
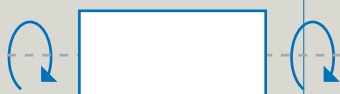
Clutch analysis

**Instantaneous torque
measurement**

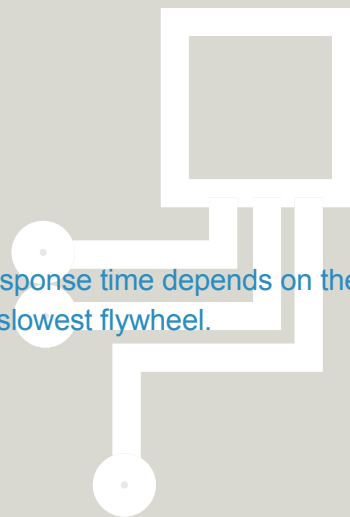
FUR-D is dedicated to angular displacement measurement between two flywheels. It can be used for cyclic measurements as found in powertrain analysis to develop gearbox, clutches and drive shafts etc ...

The converter FUR-D is fully programmable and available in 3U-10TE module or Eurocard format.

The user enters the number of teeth on the two flywheels and the output dynamic in degrees.

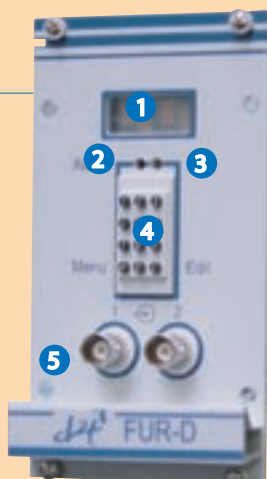


The response time depends on the speed of the slowest flywheel.



Example of a clutch test set up:

- engine flywheel 144 teeth
- gearbox Gear with 39 teeth
- 6 degrees per unit



FRONT PANEL DETAILS

- 1 4 digit alphanumeric for parameters values
- 2 The red Led indicates the range limits.
- 3 The yellow Led indicates the status of the converter.
- 4 Miniature data input unit to set parameters.
- 5 BNC inputs. These inputs are also available on the rear of the module / cabinet.

RACK WITH FILTERED POWER STAGE

- **CH902 - SB** : This 28TE - 3U frame format and can house 2 modules. There is a choice of power supply :

- Mains (85 - 265 VAC)
- Battery (9 - 18 VDC)

Inputs / outputs and serial line to program the modules are mounted on the rear panel.

- **CH904 - SB** : This 63TE - 3U format and can house 4 modules. It has the same specification as the CH902 - SB.

- **CH908 - SB** : This 19" frame can house 8 modules. It is only mains powered ,the Inputs / outputs and serial line to program the modules are mounted on the rear panel

CH902-SB :
with 2 FUR-D module



SPECIFICATIONS

- Number of measurement channels 1 off

INPUTS

- Number 2, reference and measurement
 - Input / Output isolation 1500 VRMS
 - Impedance 20 Ω
 - Sensibility 400 mV peak
 - Over voltage protection 60V transient

OUTPUT

- Number 1
 - Level -10V to + 10V

- Impedance 25 Ω
 - Short circuit protection Yes
 - Over voltage protection Yes, transient

OPERATION

- Speed 0 - 20000 rpm
 - Output rang 2 ° to 9999 ° for 10V
 - Response time 2 teeth of slowest wheel
 - Accuracy Dependent on number of teeth and Speed
 Ex : <0.05 ° with 60 teeth at 1000 rpm

ORDERING INFORMATIONS

XXX-X	X-XXX	X	XX
Function	Input Type	Communication	Dimension
FUR-D	C : magnet pick-up	A : RS232	M : Module 1 : 160 mm deep
			C : Board 2 : 220 mm deep
	T : encodeur	S : RS 485	S2 : Module for Mains supply

All D2T products are warranted against defects in materials and workmanship for one year from date of delivery to the original purchaser. Specifications are subject to change without notice.