

# CT 159.04

Pressure transducer and TDC sensor for CT 151



The illustration shows a similar pressure transducer: 1 pressure transducer, 2 adapter

#### Description

- pressure measurement in the combustion chamber of an engine using a micro pressure transducer
- an inductive proximity switch serves as TDC sensor

For experiments using cylinder pressure indication on the CT 151 test engine, the engine is fitted with a micro pressure transducer. The pressure transducer is directly exposed to the combustion chamber pressure. The core component of the pressure transducer is a heat resistant piezo-electric quartz crystal, which outputs a charge signal proportional to the pressure. The pressure transducer is connected to the measuring amplifier in the CT 159.01 electronic indication system.

The inductive proximity switch supplied serves as a TDC sensor.

### Learning objectives/experiments

 cylinder pressure measurements on internal combustion engines

### Specification

- [1] quartz pressure transducer
- [2] inductive proximity switch as a TDC sensor
- [3] only to be used with CT 159.01 and CT 151

#### **Technical data**

Pressure transducer

- measuring range: 0...100bar
- max. operating temperature: 200°C
- max. allowable pressure: 250bar

Weight: approx. 1kg

## Scope of delivery

- 1 pressure transducer
- 1 inductive proximity switch
- 1 adapter
- 1 manual



# **CT 159.04** Pressure transducer and TDC sensor for CT 151

Required accessories

CT 159	Modular test stand for single-cylinder engines, 3kW
CT 151	Four-stroke diesel engine for CT 159
CT 159.01	Electronic engine indicating system for CT 159