



- Converter testing
- Quality control
- Preventive maintenance
- AK protocol remote controlled operation

The EFT 700 device performs the efficiency test on NO<sub>2</sub>-converters of CLD NO<sub>x</sub> analyzers. It is a simple and reliable method according to European and US regulations. The gas phase titration enables efficient analysis of steel, metal or molybdenum converters.



International standards require reliable and precise gas analysis.

### Reliable concept.

This most reliable method calculates the efficiency of converters based on the gas phase titration method (GPT). The internal generated ozone is mixed with the NO calibration gas to deliver a known NO<sub>2</sub> concentration. The relationship of known NO<sub>2</sub> and displayed concentration at the CLD reflects the converter efficiency.

### Easy operation.

The EFT 700 may be manually or remote controlled by an ECO PHYSICS CLD analyzer. Control signals are sent to the device and displayed at the front. This test method may be used in automotive applications using the AK protocol. An automatic converter test is done in 3 steps:

1. Supply of NO calibration gas
2. Supply of diluted NO calibration gas (10% dry air)
3. Supply of NO<sub>2</sub> gas to calculate the converter efficiency

The gases are delivered at ambient pressure to the CLD to avoid any kind of measurement inaccuracies due to pressure fluctuations.

### Maintenance.

The EFT 700 is almost maintenance free. The installed particle filters protecting the internal valves and regulators shall be exchanged at appropriate intervals.

Note: The EFT 700 should be operated by trained personnel only.

### Specifications

Input pressure:	3 to 4 bar
Input NO conc.:	up to 500 ppm
NO flow:	2.2 l/min
Synt. air flow:	0.2 l/min
Output pressure:	ambient pressure
Output NO <sub>2</sub> conc.:	up to 500 ppm
Gas connections:	¼" Swagelok
Supply voltage:	230 V / 50 Hz or 115 V / 60 Hz
Dimensions:	H: 12 cm W: 25 cm D: 36 cm
Weight:	5 kg

### References:

US EPA:	Method 20 / 7E
ISO / EN:	14211, 14792
MARPOL:	MEPC 58/WP.9
MCert:	Ver. 3.1, 2008

- Converter efficiency test
- Three modes of operation
- Internal ozone generator
- Adjustable ozone flow
- Remote control by AK protocol



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