

HTS-Systeme GmbH

Optical and electric mechanical Sensors for the Gas Analytics as well as the Biotechnology and Medicine Engineering

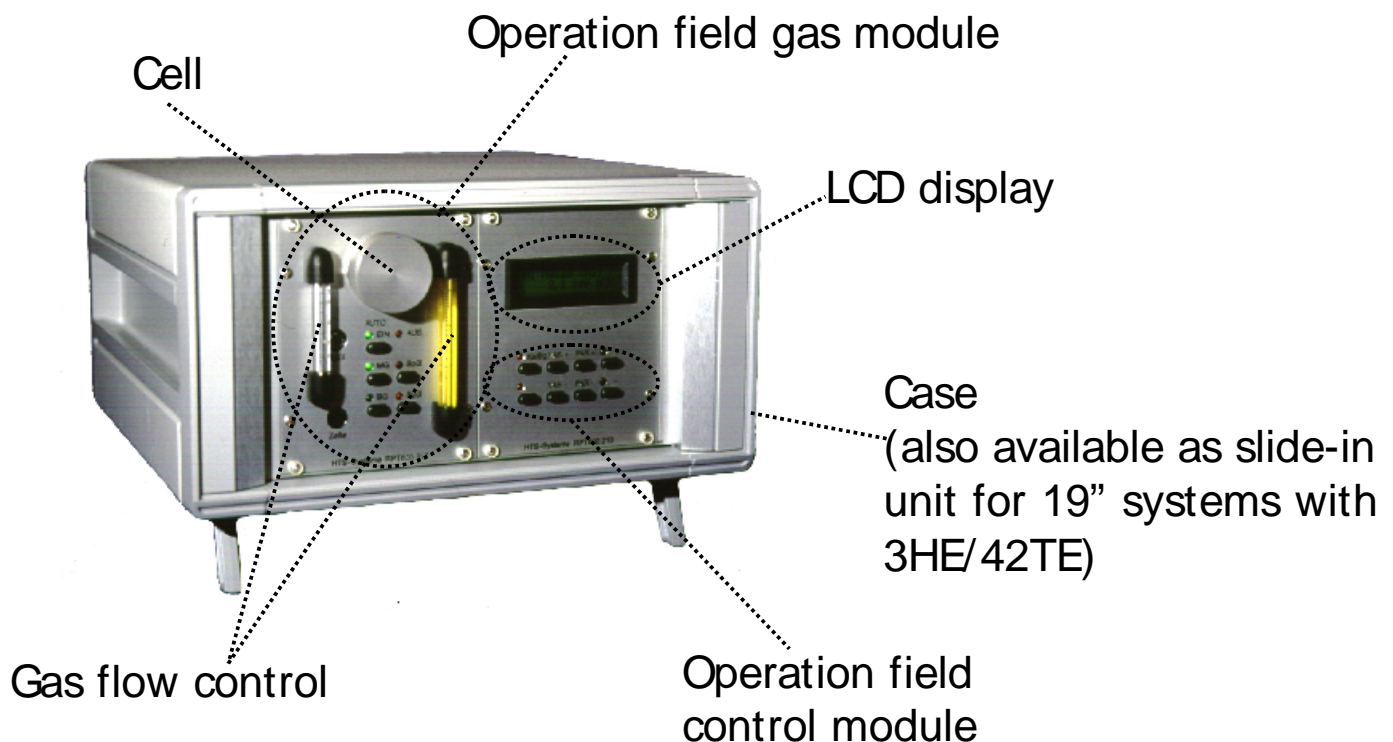
Moisture Analyzator **RPT600**



**High Sensitive Instrument
for the Humidity
Determination of Gases**



Operation - **RPT600**



At this variant the control and the gas module is kept separately in two cassettes. This modular design is ideal for the installation in control cubicle, because the control module can be changed without opening the gas pipe.

On the one hand the moisture analyzer **RPT600** can be operated with the control field of the front panel of the slide-in unit. On the other hand the **RPT600** can be remote controlled about a central control station with separated signal input and output on the backside of the instrument.



RPT600 - a fully automatic instrument for the humidity determination in gases - combines modern electronic with technology tested with customers for many years. A phosphor pentoxide electrode detects the humidity in gases in ppm. **RPT600** contains:

- ◆ Automatic calibration monitoring with integrated switchover between measuring gas and calibration gas
- ◆ Internal report of the calibration results
- ◆ Serial interface

Application - **RPT600**

- ◆ Quality control at the gas production
- ◆ Quality control at the bottling of synthetic gases
- ◆ Humidity determination at gases for medical applications
- ◆ Humidity determination at gases in air bottles e.g. in the aeronautics
- ◆ Quality control for production processes in connection with industrial gases e.g. the filling of pneumatic shock absorbers



Specifications - **RPT600**

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Measuring range	0 to 2000 ppm
Resolution	0.1 ppm
Precision	0.1% of the measuring range +/- 0.1 ppm + Deviation calibration gas / peripheral conditions
Measuring result output	LCD display; current loop 4 to 20 mA; serial output
Supply	230 V AC / 115 V AC switchable
Gas override	Integrated, switchable between calibration gas and measuring gas
Autocalibration	Internal / external triggerable
Date / time	Monitoring of the calibration intervals
Manual Mode	Parameter adjusting and functional execution
Number of output ranges of the current loop	4; each adjustable between 5 and 2000 pm
Autoranging	Automatic range selection
Flow control	Mechanic flow controller
Gas flow	12 nL/h nominal, maximal 70 nL/h bypass
Recombination effect	Arithmetically compensated
Number of binary control inputs	10; isolated; 10 to 24 V; 5k
Number of binary output relays	16; isolated; 10 to 24 V; 200 mA load capacity
Humidity Measuring in N ₂ , Ar, He, Ne, Kr, Xe, CO ₂ , Sf ₆ , N ₂ O and O ₂ .	

RPT600 was developed in cooperation with the company Psysteme GmbH. Further instruments for humidity measuring as well as the determination of oxygen concentrations in industrial gases in ppm on request:

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