

# IPA Measuring Device

## IPA CONTROL EXACT

The hand-held IPA measuring device makes it possible to determine the exact alcohol concentration in the dampening solution quickly, easily and very precisely. Dampening solution samples can be taken at any point in the dampening solution circulation.



Polygraphische innovative  
Technik Leipzig





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### Working Principle

The dampening solution sample is at first heated to between 20 °C and 25 °C in the measuring dish in order to achieve maximum measurement accuracy. Then, a special gas sensor determines the isopropyl alcohol concentration in the evaporated dampening solution based on the principle of gas extraction. Based on this measured value, the IPA concentration is calculated under consideration of calibration formulas and sample temperature and is shown on the display. Using this measurement principle, any measurement errors due to impurities in the dampening solution are eliminated. The device is operated with a plug-in power supply.



PITSID develops systems for the graphic arts industry together with the Sächsisches Institut für die Druckindustrie.

The current product assortment comprises devices for measuring and testing print registration, contact pressure, traction force, packing height, gap widths, UV curing, IPA concentrations, book block strength and also printing plate positioning in plate bending devices and roller adjustments.

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### Technical Data

#### Measurement principle of the gas sensor

Heat tone (catalytic)

#### Measurement range

0.0 to 8.0 vol% IPA

#### Dampening solution temperature

+5 to +25 °C

#### Dampening solution sample amount

25 ml

#### Operating temperature

+15 to +30 °C

#### Resolution of the measured value

0.1 vol% IPA

#### Measurement uncertainty (with water/IPA mix)

$\leq \pm 0.3$  vol% IPA

#### Measurement time

60 s plus heating time (depends on dampening solution temperature)

#### Power Supply

Electrical operation using included plug-in power supply

#### Dimensions

Hand-held device: 255 x 100 x 64 mm

Measuring dish: 122 x 68 x 19 mm

#### Weight

Hand-held device: 0.50 kg

Measuring dish: 0.15 kg

#### Scope of delivery

Hand-held measuring device, heatable measuring dish, tool to take dampening solution samples, plug-in power supply, carrying case, operating manual