

IPA Measuring Device

IPA CONTROL III

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



Scan here for
product video.





IPA Measuring Device

IPA CONTROL III

Working Principle

The hand-held IPA CONTROL III measuring device analyzes the gas phase evaporated above the dampening solution sample. First, the dampening solution sample taken from the press is filled into the measuring dish. The immersed measuring head passes the resulting IPA-air mixture to a gas sensor inside the hand-held measuring device. Based on the measured temperature of the dampening solution and the signal from the gas sensor, the IPA CONTROL III calculates the IPA concentration of the dampening solution sample and outputs this value on the display.



Scan here for product video.



PITSID develops, produces and sells measuring systems, supported by the Sächsisches Institut für die Druckindustrie. The measuring systems are used for quality control and to increase efficiency during adjustment and maintenance operations.

PITSID Polygraphische innovative Technik Leipzig GmbH
D-04329 Leipzig
Mommssenstrasse 2
Tel +49 341 25942-0
Fax +49 341 25942-99
info@pitsidleipzig.com
www.pitsidleipzig.com

Measuring Device for Determining IPA Concentration

Isopropyl alcohol (IPA) is added to the dampening solution of offset printing presses as an additive. It reduces surface tension and stabilizes the printing process. Maintaining the correct IPA concentration is crucial to ensuring constant high print quality on offset presses.

The hand-held IPA CONTROL III measuring device is used to determine the exact IPA concentration. The advantage of a hand-held measuring device is that the dampening solution can be taken and tested at all accessible points in the dampening solution circulation system of the press. The IPA CONTROL III measuring device has a measurement range of 0 % to 15 %, thereby meeting the most diverse requirements demanded by operators in the printing industry. With regards to controlling the measuring device, the IPA CONTROL III provides the possibility that the customer can easily calibrate the device.

Technical Data

Measurement range

0.0 to 15.0 vol% IPA

Dampening solution temperature

+5 °C to +25 °C

Dampening solution sample amount

25 ml

Operating temperature

+15 °C to +30 °C

Resolution of the measured value

0.1 vol% IPA

Measurement uncertainty (with water/IPA mix)

$\leq \pm 1.0$ vol% IPA at ambient temperature (23 °C \pm 3 °C)

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