



# IpaSonic

Alcohol measuring and  
metering devices

## Dampening Systems



**BALDWIN**<sup>®</sup>



# IpaSonic

## Precise measurement of 2-propanol concentration in offset fountain solutions

*From the beginning of the nineties there have always been efforts to reduce the 2-propanol part in offset fountain solutions that which is normal with state-of-the-art continuous type dampening systems, even to the point of prohibiting 2-propanol usage with fountain solutions (see initiative by the Federal Association of the Graphic*

*It must, however, be stated that no ideal substitute for 2-propanol has as yet been found. If 2-propanol is still to be used to guarantee trouble-free high quality printing, then, not least for reasons of cost, the ground rule should be "As little as possible and only so much as absolutely necessary".*



*Digital display of currently measured alcohol and temperature values on BALDWIN desk units*

Besides accurate metering of 2-propanol when mixing the fountain solution, exact measuring of the 2-propanol concentration also takes place during printing production. As 2-propanol is continuously evaporating from the fountain solution during the printing process, the continuous or interval controlled measuring is the basis for metering additional 2-propanol.

### Why a new procedure for measuring 2-propanol concentration?

Traditionally, manual or automatic measuring of 2-propanol concentration is carried out by determining the specific gravity of the fountain solution, using a densitometer, hydrometer or aerometer. One of the most serious disadvantages when using this method of measuring is the gradual deterioration of measuring values due to salt ingress and other contamination returning from the print processed fountain solution, which in turn affects the measuring instruments and their mechanics. This results as an apparent registering of low concentration which calls for additional 2-propanol.

It is now high time for a new measuring procedure that overcomes this predicament. BALDWIN present the solution with IpaSonic an objective basis for measuring 2-propanol concentrations.

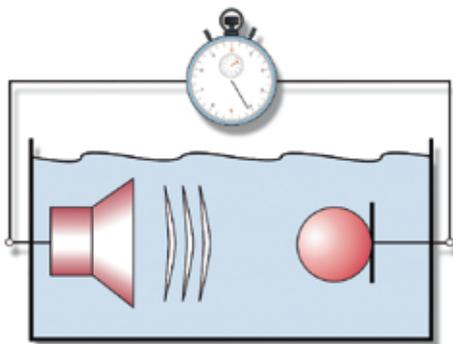
### What is IpaSonic?

IpaSonic is a compact system for measuring 2-propanol concentrations in offset fountain solutions. IpaSonic utilises the ultrasonic compression of liquid principle. The concentration is determined through using the direct matter constants of 2-propanol. Since the measuring is dependant on temperature, the temperature is simultaneously analysed and necessary compensation is automatically carried out.

This innovative 2-propanol measuring process has already established a good name for itself and proven reliability in practice in the food processing industry with brewing manufacturers.



*IpaSonic – installed on a BALDWIN desk unit*



*Schematic Illustration of the IpaSonic measuring*

# IpaSonic

## What advantages does the IpaSonic offer?



*Arts). In addition to this, legislative measures on an international level today demand a limitation of volatile organic compound (VOC) emissions.*

### What advantages does the IpaSonic offer?

The most decisive advantage with the IpaSonic is no gradual deterioration of measuring values due to salt ingress and other contamination returning from the print processed fountain solution. Thanks to precise incorruptible measuring with the IpaSonic, unnecessary 2-propanol metering and increases in consumption are avoided. Month long test applications on commercial web offset presses have resulted in a proven 2-propanol reduction of more than one third when compared to 2-propanol consumption using the conventional specific gravity measuring methods, see also "report by the Federal Association of the Graphic Arts - IpaSonic compared with other measuring systems".

### Further advantages of this new measuring system by BALDWIN:

- Insensitive to contamination
- Easier maintenance
- Just as suitable for measuring alcohol mixtures
- Easy to fit retrofit system
- Tried and trusted method of measurement
- Low installation costs, short pay-back time

IpaSonic is available as an optional accessory integrated into the BALDWIN refrigerated circulating and cooling systems, with specific consumption displays of 2-propanol, fountain solution additives and water.

BALDWIN are offering two types of IpaSonic. With Baldwin upright cabinet systems, the current measured values for alcohol and temperature are displayed on the main controller. With BALDWIN desk type systems, the current measured values for alcohol and temperature are displayed on a separate display unit.

IpaSonic is also available as a retrofit system for upright cabinet systems - HS units 821, 831, 871, 852, 851 and for the desk type series 851.

Ask at BALDWIN, to find out if Your BALDWIN refrigerated circulating and cooling systems can be retrofitted with IpaSonic.

### Specifications:

Measuring accuracy: calibration	± 0,5 % volume with appropriate calibration
Concentration range:	0 – 20 % volume



*Measuring head of the ultrasonic measuring system*



*IpaSonic for the BALDWIN desk unit*



*IpaSonic for the BALDWIN upright cabinet unit*