VERMES
MICRODISPENSING

- ■ **UNIQUE FAULT DETECTION SOLUTION FOR EVERY DISPENSING APPLICATION**
- ■ **DETECTION OF MISSING AND HIGHLY DEFORMED DROPLETS**
- ■ **IDENTIFICATION OF DISTORTION, SUCH AS RESIDUE**
- ■ **UNRIVALED FIBER OPTIC DROP SENSOR TECHNOLOGY**
- ■ **CUSTOMIZABLE DROP EVALUATION**

DDS 80 –
Drop Detection System

The DDS 80 drop detection system from VERMES Microdispensing is an innovative microdispensing fault detection system.

VERMES Microdispensing
www.vermes.com

DDS 80-
Drop Detection System

Recommended Media:

■ Unique fault detection solution for every dispensing application

■ For the detection of missing drops including with transparent media

Application Examples:

■ Detection of missing drops, even at high speed

■ Recognition of highly deformed droplets

■ Control of droplet timing accuracy

■ Identification of distortion, e.g. residue, unintended coated or broken fiber

The DDS 80 drop detection system from VERMES Microdispensing has been developed on the basis of an innovative, fiber optic drop sensor.

It is currently the smallest system on the market for detecting faulty droplets in micro dispensing.

Major Advantages:

The DDS 80 Drop Detection System optimizes the process reliability of jetting applications with its ability to accurately detect missing droplets.

The DDS 80 is an extremely flat designed system for defect drop detection that uses a fiber optic drop sensor based on an algorithm of the RF technology and therefore it does not require an expensive micro lens.

It detects missing and incorrect droplets even at high speed doses, residue, unintended coated or broken fiber. The system reliably identifies even the smallest, transparent drops.

The drops review is adaptable to the individual fault tolerance of customer applications, ranging from the detection of missing drops through to recognition strongly deformed droplets.

In addition the DDS 80 allows controlling of the drop time accuracy, the identification of faults and media residues on the nozzle.

The robust design of the DDS 80 is characterized, like all VERMES Microdispensing products through easy handling and cleaning and high functionality.

With the help of a teach-in process, it provides an automatic parameter determination, a self-test routine, as well as a statistical error signal control.

The detection of a droplet fault triggers a fault alarm, an error message is transmitted directly to the production control and real-time interruption of the monitoring system can be initiated.

The DDS 80 drop detector is easy and quick to install on the nozzle and has an extremely low height requirement.

The DDS 80 drop detection system can always be retrofitted to existing VERMES Microdispensing systems and is adaptable to the individual customer requirements.

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