

Oil sensor hand set



General machine data:

Machine type:	Process Control Unit Libelle
Machine no.:	30013
Measuring cells:	1 + 1 Sensor for the assessment of bonding
Memory for measuring data:	30 GB
Data collection interval:	4 sec.

Details of the cleaning unit:

Machine type:	DAD-2 BL/600/150/6.900
Maschine no.:	2254
Washing medium:	H ₂ O + 3% alkaline chemistry
Medium temperature:	65°C
Tanks:	2
Tank volume:	each 1.500 l
Spraying pressure:	2,5 bar / 2,0 bar
Conveyor capacity:	22m ³ /h / 11m ³ /h

Registered contamination:

- Oil
- Particles

Equipment:

- One measuring cell for optical control of contamination of the cleaning medium
- Oil sensor as hand set for the assessment of oily surface contamination of the washed components as rate for the applicability of bonding of the surface
- Installation of the analyze unit in the control cabinet

Request of result:

The washing medium should be continuously controlled in the process. If the process parameters do not lie in the specified tolerances an alarm message is displayed.

Process description:

During the cleaning process the washing medium is taken out of the pressure line and conducted through the measuring cell. In the measuring cell the Libelle analyzes the liquid and calculates the pollution degree from the change in terms of color of the medium. After the cleaning process the operator has the opportunity to check the components with the hand set for cleanliness and therefore the applicability of bonding. The collected process data is stored on the system and is available for later purposes of documentation.



Pic. 1: Operator on checking a component; LED
signalizes too high surface contamination



Pic. 2: Indication of the current process status in
the control cabinet



Pic. 3: Measuring cell for analysis of medium in
the washing tank



Pic. 4: Measuring booth for registration of the
component cleanliness

Pic. 5: Hand set for control of the
component cleanliness

