

## **Ecolab Deutschland GmbH Ecolab Allee 1** D-40789 Monheim am Rhein

certifies that for

## **Banner Engineering Corporation** 9714 Tenth Ave N MN 55441 Minneapolis, United States of America

### material resistance tests

were performed with cleaning/disinfecting substances P3-topactive OKTO, P3-topax 990, Topactive 500 and Topactive 200 and demineralized water as a zero reference factor.

The material resistance of the tested Sensor and cable

T18-2 Series – Epoxy encapsulated sensor with cable MQDC-WDSS

to the P3 products used in the test can be considered to be positive according to the cleaning procedure mentioned overleaf.

Monheim am Rhein, 08th March 2018

**Ecolab Deutschland GmbH** 

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#### This certificate is based on:

- documented test procedures (test no.: F&E/P3-E Nr. 40-1) according to material resistance
- defined product descriptions
- test report for the Ecolab certification carried out at SLG Prüfund Zertifizierungs GmbH (Protocol No. 6077-17-GG-18-PP001)

### Test procedure\* Ecolab-test F&E Nr. 40-1

Test material:

T18-2 Series - Epoxy encapsulated sensor with cable MQDC-WDSS

### Dipping test:

Complete immersion in solutions/liquid

### Test period:

28 days

#### Temperature:

room temperature (constant)

#### Analysis:

- Visual judgement like swelling, brittleness, discoloring
- compared to zero-reference factor (demineralized water)
- Photo documentation
- Function test

## **Product specifications:**

#### P3-topactive OKTO

Acid disinfectant based on peracetic acid/hydrogen peroxide for the food and beverage industries

#### P3-topax 990

Mild-alkaline, chlorine-free sanitizer in the food and beverage industries

#### **Topactive 200**

Alkaline, chlorine-free foam cleaner for the food and beverage industry

#### **Topactive 500**

Acid foam cleaning substance for the food and beverage industries

# Cleaning plan for food and beverage industry\*



# Rinsing with water 40 - 50°C

Rinsing with low pressure. Rinsing from top to bottom in the direction of the drains. Cleaning of the drains



### Foaming from bottom to top

alkaline:

Topactive 200

2 - 5 % daily

acid:

Topactive 500

temperature:

2 % on demand

cold up to 50°C

contact time: 15 min. recommended



#### Rinsing with water 40 - 50°C

Rinsing from top to bottom with low pressure



#### Foam disinfection

P3-topactive OKTO

1 %, 10-30 min

alternative

P3-topax 990

1 %, 30 min



Rinse with potable water after disinfection!

short description The final step of a cleaning regime is always a thorough water rinsel