Smart Fan Tray

nVent
SCHROFF

TEMPERATURE CONTROLLED FAN TRAY WITH REMOTE MANAGEMENT

New Smart Fan Tray that Ensure Efficiency and Reliability

ENERGY EFFICIENT AND CONNECTED SOLUTION

- 6 high power fans providing 1089 m³/h @ ΔP 78 Pa
- Fan speed controlled by fan control module
- Temperature threshold for the fan control adjustable on the front panel or via Modbus
- Signaling of fan failure and over temperature by 2 LEDs and potential-free relay outputs and Modbus
- Integrated power supply with wide range input (100 V – 240V)
- Connector for 2 NTC temperature sensors. Temperature sensors with 2m cables included in the delivery
- RJ45 connectors for control and monitoring via Modbus
- Height / Width / Depth: 44 mm (1 U) / 19" / 399,5 mm

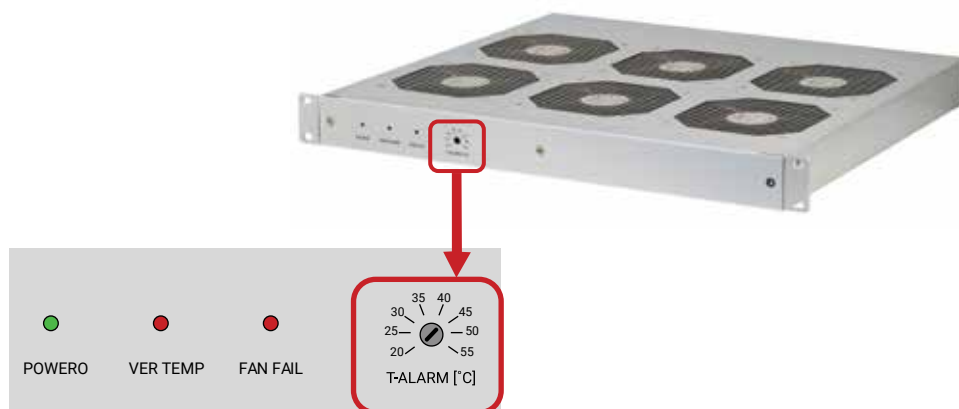### REMOTE CONTROL AND MONITORING THROUGH MODBUS

- Wide range AC input for global use
- Suitable to mount into a 1U space in the rack or under the rooftop of the cabinet
- Low acoustic noise due to special mesh below and above the fans
- Energy efficiency by temperature-controlled fan speed with adjustable temperature alarm threshold
- Remote Manageable through Modbus Interface. Integrated into the nVent SCHROFF Guardian Management Gateway environment
    - Set alarm thresholds, control mode and fan curve remotely
    - Monitor temperatures and fan speeds remotely
    - Get alarms and take or pre-configure actions within the Guardian Management Gateway Web Interface

FEATURE DETAILS

3 CONTROL MODES:

- Auto Mode 1: The FCM adjusts the fan speed according to temperature setting by a potentiometer at the front panel.

- Auto Mode 2: The FCM adjusts the fan speed according to temperature setting by Modbus.

- Manual Mode: The fan speed is set by Modbus from 20 % to 100 %

OVER TEMPERATURE ALARM

If the alarm threshold is exceeded, an alarm is triggered, i.e. the red OVER TEMP LED lights up and the relay contact NO on the alarm connector [4] will be closed

FAN FAIL ALARM

Fan fail alarm is triggered if a fan or a NTC temperature sensor is defective or missing, i.e. the red FAN FAIL LED lights up and the NO relay contact on the alarm connector [4]

TECHNICAL DATA

TECHNICAL DATA	
Height/With/Depth	44 mm (1 U) / 19" / 399,5
Weight	4,3kg
Ambient Temperature	-10°C - +70°C
Humidity	20 - 90 % RH non-condensing
Air Flow	1089 m³/h @ ΔP 78 Pa
Noise Emissions (Full speed)	59,5 dB(A)
Load Capacity alarm relay contacts	30VDC / 1A
Power	100-240 V, 50/60Hz, 2 ,3 A
Emissions	EN 61000-6-3 including EN 55032 level B
Immunity	EN 61000-6-2 (industrial EN 55032 level B
Safety	EN 62368-1

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