

VISONIK®

## BPS operating hours count

Function sheet



This function sheet provides an overview of the VISONIK BPS operating hours count functions.

### Use

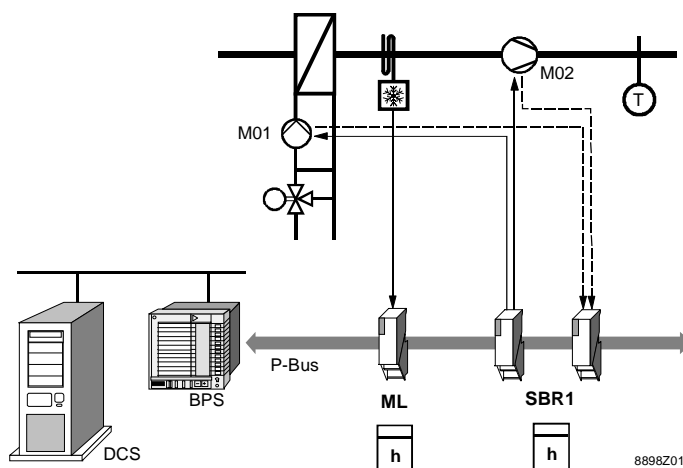
#### General

The VISONIK BPS acquires the operating hours of plant elements through continuous polling of the operating states. The VISONIK BPS can:

- Add up operating hours and transfer them to the DCS
- Determine limit value violations of operating hours

#### Example

The illustration below shows an application example:



#### Explanations (illustration)

In this example, the VISONIK BPS acquires the following values:

Element	Values
ML	The duration of the frost status via the status module, point type ML
SBR1	The operating hours of the heating coil pump (M01) and the supply air fan (M02) via feedback message of the switching modules, point type SBR1

The BPS transfers these values at intervals that can be defined to the Data and Communication Server (DCS) for storage and further processing such as:

- Printing of spontaneous event reports
- Execution of maintenance reactions on reaching the operating hours limit values

## Point types and functions

### Point types

The operating hours count can be installed for the point types of physical basic functions "signalling" and "switching" as well as for virtual digital point types to integrate subsystems:

Point type	Brief description	OH...	RT...
ML	Status signal (digital input)	x	
SB1	1-step switching command	x	
SBR1 .. 3	1- to 3-step switching commands, with feedback	x	
DI	Digital Input; link point to adopt data		x
DO	Digital Output; link point to transfer data		x
RWI	AEROGYR ventilation controller RWI on FLN bus		x
SEZ	MONOGRYR switching unit SEZ81... on M-bus		x

Activation and control of operating hours count occurs via the corresponding **parameters** of the respective points. The parameters have designation:

- OH... (for Operating Hour) with physical basic functions
- RT... (for Run Time) with link points, MONOGRYR, and AEROGYR points

### Functions

Below is a short description of the operating hours count functions:

Function	Description
Activate operating hours count	Activation occurs by setting the corresponding parameter in the respective point such as: OHACT=1 for point type ML; RTACT=1 for point type DI
Add operating hours count	The corresponding parameter contains the added operating hours for point or operating states. Range: 0.00 .. 65534.99 hrs at OH... / 0 ..1E36 at RT...
Define limit value	The corresponding parameter defines the operating hours limit value.
Compare operating hours to limit value	On limit value violations, the corresponding error state (OPSTA=13) of the respective point in the BPS is set. If the BPS itself is supposed to trigger such action on limit violations, programming is required (COLBAS task).
Transfer operating hours to DCS	Defines the intervals at which a transfer is supposed to occur. Value range: 0, 0.25, 1.00, 24.00 hrs
Range limits (for DI, DO, RWI, SEZ)	For multi-stage point states, two point status ranges can be defined during which operating hours are acquired.

### BPS operation

All involved parameters can be queried at the VISONIK BPS. BPS reactions occur only if they have been programmed in a COLBAS task.

### Additional information

Refer to the following document under the associated point types for detailed information on the individual parameters and their functions:

#### Document no. Title

CM2Z8567E VISONIK Point Types and Parameters (expert documentation)