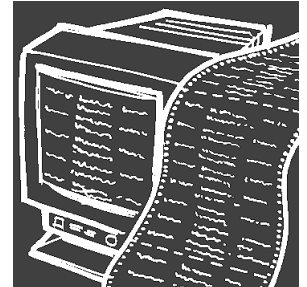


VISONIK®

BPS reports

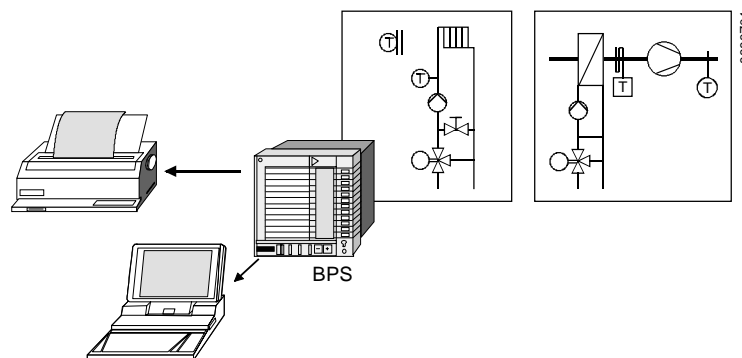
Function sheet



The VISONIK BPS can output various reports: From individual point reports to system reports containing comprehensive information, event-dependent or on user request. This function sheet provides an overview of the most important reports and the corresponding information.

Use

Reports of the VISONIK BPS provide information on the respectively assigned building services plants in the form of on-screen clear text or printouts:



Overview of reports

The following table contains an overview of the reports that can be generated:

Name	The report lists ...
System report	all configured information points of the associated BPS, or controlled by selectors: selected point types, address ranges, and groups.
Alarm report	the information points that have assumed a fault or warning state (selectors as above)
Error report	the information points that have assumed an error state (selectors as above)
PLT report	the existing plants and their operating states, displayed in short form via software point PLT
Individual point report	the state of a specific point
Optimisation report	a zone point folder (plants with Optimum Start Stop Program) including a display of the most important values
Room management report	all important information on groups, rooms, and controllers of an integrated room control system

Report generation and structure

Report generation

All previously listed reports can be generated in two ways:

- on operator or program request (VDI 3814: overview reports)
- spontaneously through events as soon as these are recognised by the VISONIK BPS

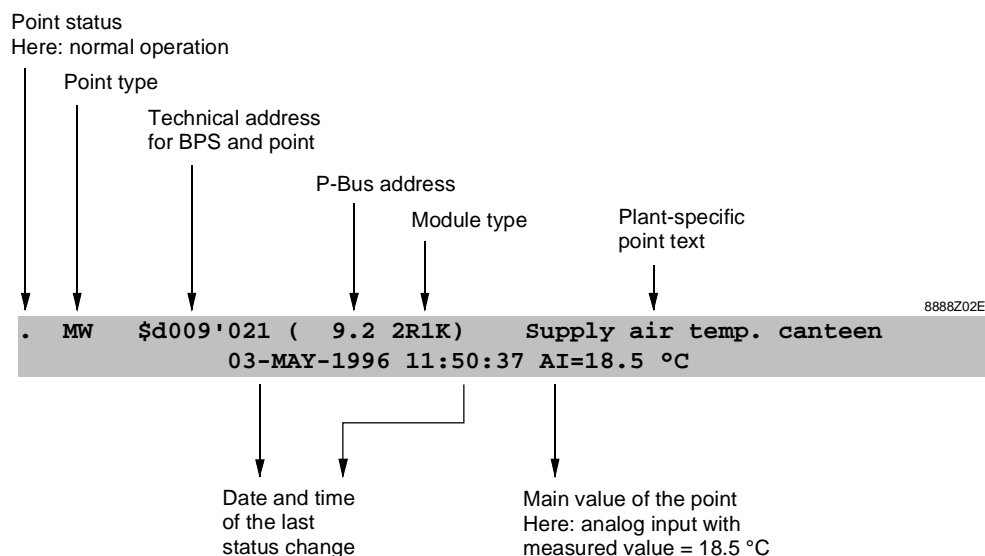
Operators can call up the reports on the VISONIK BPS via the POP Cards or via a PC with menu-guided operation or via COLBAS commands.

Structure of reports

All VISONIK BPS reports have the same structure. Two lines are output for each information point:

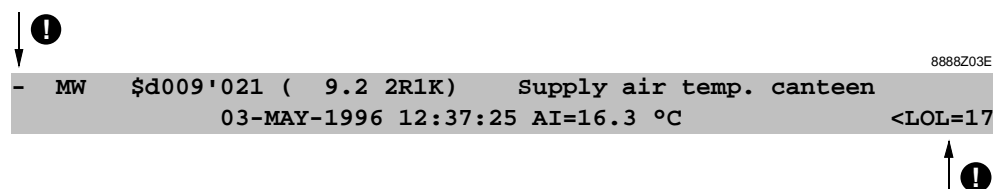
- **Line 1:** Point state, point type, address, module type, point text (plant-specific)
- **Line 2:** Date, time, add. information (depending on point type and parameter)

The following example shows the two lines for an I/O point of type MW:



Point state and additional information

The following example shows, for example, an event report for a point where the supply air temperature of the canteen has dropped below the limit value:



Explanation

The basic point information remains unchanged, but the point state's preceding character has changed and additional information is output:

Character	Meaning
-	Point state: The measured value is below the defined limit value
<LOL=17	Additional information: The defined, lower limit value is (LOL) 17

Further examples for point states:

- * The point is faulty
- + The main value is above the defined limit value
- ?FBV The feedback message is not equal to the defined setpoint state

Further examples for additional information is available in the SYR system report on the next page.

Example: Overview report

System report SYR

The picture below contains an example for an overview report in the form of a system report SYR excerpt:

```

SYR      11:50:37      R E P O R T - S T A R T      02-MAY-1996/TH

.  ML    $d009'000 (  1.1 2D20)   Boiler North
      03-MAY-1996 05:53:21 DI=1
?FB SBR1 $d009'010 (  5.1 2QD)   Supply air fan
      03-MAY-1996 07:30:05 DO=1      DO<>FBV
-  MW    $d009'021 (  9.2 2R1K)   Supply air temperature
      03-MAY-1996 11:50:37 AI=15.8 °C  <LOL=18
.  STU   $d009'030 ( 13.1 2Y10)   HE valve
      03-MAY-1996 11:50:37 AO=40 %
.  PLT   $d009'PLT1 (LZON=1)      Plant 1 BPS $1 1st floor South
      03-MAY-1996 11:50:37 PSTA=1
.  RGB   $d009'RGB1 (SEQ=0)       BPS $1 1st floor South
      03-MAY-1996 00:00:00 PRV/SPV=19.8/20 degrees C  ASEQ=0
.  ZON   $d009'ZON1 (DISP=0)      Zone 1 BPS $1 1st floor South
      03-MAY-1996 11:50:37 ZOSTA=2
  
```

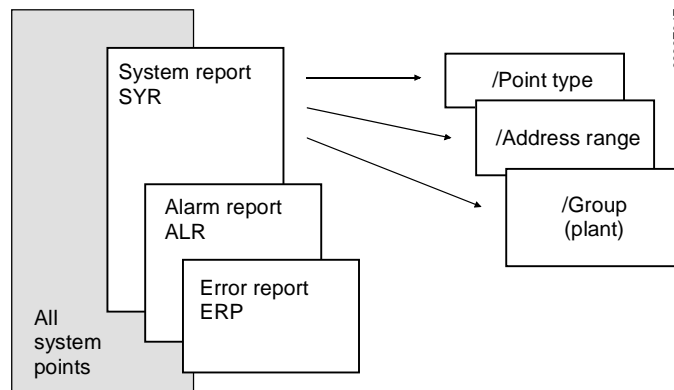
Report explanation

The following table provides an explanation of the specific point information:

Point	Information	Interpretation
ML	DI=1	Status signal and value (digital input) DI = 1. Meaning (here): Boiler North is switched-on.
SBR1	DO=1 DO<>FBV	1-step switching command with value DO=1 to ZL fan. Feedback message FBV is not equal to the switching command output DO.
MW	AI=15.8 °C <LOL=18	The measured value (analog input) is 15.8 °C. The measured value is below the limit value (LOL) of 18 °C.
STU	AO=40%	The positioning signal (analog output) to the valve is 40%.
PLT1	PSTA=1	Plant point with status (PSTA) = 1 = ON
RGB1	PRV/SPV =19.8/20 °C	Controller block of plant 1 st floor South with: Process value (measured) PRV = 19.8 °C/Setpoint SPV = 20 °C.
ZON1	ZOSTA=2	Zone 1 (=OSTP program of plant 1) is in the active phase ZOSTA=2, optimum start heating.

Selectors for further segregation

The individual reports list a specific selection of all system points. With reports SYR, ALR, and ERP, selectors can be used to achieve a further segregation according to point type, address range, or group (plant):



The picture shows a system report SYR. The point type selector allows for creating a system report SYR listing, for example, all I/O module points only.

Room management report

Report contents

The room management report (RMR) provides information on room groups, rooms, and controllers of an individual room control system integrated in the VISONIK BPS such as:

- TEC Terminal Equipment Controller (FLN bus)
- MONOGRYR room controller and switching units (MONOGRYR bus)

Example for an RMR report

The following example shows a MONOGRYR room management report with allocations and states of the individual room controllers and switching units:

RMR		13:35:40		REPORT - START				27.04.1995/TH					
MGG	!MGR	!RCE	!	!SEZ	!AOPST	!ASPH	!ASPC	!ARTP	!O1	!O2	!AISP	!AIVL	
!	!	!	!	!	!	![C]	![C]	![CE1!]	![%]	![%]	![%]	![m^3/h]	
-----		-----		-----		-----		-----		-----		-----	
1	!1	!M 36	!	!Comfort	!	!21.0	!24.0	!20.3	!+30	!-0	!37	!37.2	
1	!1	!48	!	!Comfort	!	!21.0	!24.0	!20.3	!+30	!-0	!37	!37.2	
1	!2	!M 37	!	!Comfort	!	!21.0	!24.0	!25.3	!+0	!-22	!42	!42	
1	!3	!M 38	!	!Comfort	!	!21.0	!24.0	!21.3	!+21	!-0	!48	!32	
1	!4	!M 39	!	!Comfort	!	!21.0	!24.0	!19.1	!+53	!-0	!63	!50	
2	!5	!M 40	!	!Economy	!	!19.0	!--	!19.4	!+0	!-0	!50	!50.2	
2	!6	!M 41	!	!Economy	!	!19.0	!--	!17.5	!+0	!-0	!49	!48.6	
3	!7	!M 42	!	!Reduced	!	!15.0	!--	!21.9	!+0	!-0	!33	!33.5	
3	!8	!M 43	!	!Reduced	!	!15.0	!--	!17.5	!+0	!-0	!62	!61.7	
	!9	!M 44	!	!Reduced	!	!15.0	!--	!10.9	!+100	!-0	!53	!52.8	
	!10	!M 46	!	!Comfort	!	!21.0	!--	!17.8	!+0	!-0	!55	!55.4	
	!	!	!	!100	!on	!--	!--	!E1Open	!--	!--	!--	!--	
	!	!	!	!102	!off	!--	!--	!E1Close	!--	!--	!--	!--	
RCE count:		11											
SEZ count:		2											
RMR		13:35:43		REPORT - END				27.04.1995/TH					

Explanation of the abbreviations

The following table explains the abbreviations used in the RMR report:

Abbreviation	Meaning
MGG	MONOGRYR group. The above example contains three groups 1...3. Group 1, e.g., contains the four MONOGRYR rooms 1...4.
MGR	MONOGRYR room. The above example contains 10 rooms 1...10. Room 1, for example, contains the MONOGRYR controller RCE with addresses M36 (M = Master) and 48 (Slave). The controllers with addresses 37 to 46 each are assigned to a separate MGR.
RCE/SEZ	MONOGRYR room controller/MONOGRYR switching unit
AOPST	Current operating status
ASPH/ASPC	Current setpoint heating in °C / current setpoint cooling in °C
ARTP	Current room temperature in °C
O1/O2	Manipulated variable heating valve in % / manipulated variable heating valve or cooling in %
AISP	Relative air velocity in %
AIVL	Air volume per hour (m3/h)

RWIR report

Similar to the RMR report, the RWIR report provides information on the AEROGYR-ventilation controllers RWI which are integrated in the FLN bus via the BPS.

Further information on reports

For further information on VISONIK BPS reports, refer to:

Document no.	Title
CM2B8301E	Building Process Station BPS, operating instructions
CM2T8567E	VISONIK System Basics (expert documentation)