A-CTRL

Pressure / Flow Regulator

VAV, CAV & FLOW
MEASURING



2026-11-23

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Menystruktur

1. Regulator
1.1. Function
1.2. Setpoint
1.3. Ain1 range
1.4. Min
1.5. Max

2. Modbus
2.1. Address
2.2. Baudrate
2.3. Parity
2.4. Stop bits

3. Analog output
3.1. Aout 1 range Volt
3.2. Aout 2 range Volt
3.3. Aout 2 range

4. Digital I/O
4.1 Digital input 1
  4.1.1. Mode
  4.1.2. Active level
  4.1.3. Function
4.2. Digital input 2
  4.2.1. Mode
  4.2.2. Active level
  4.2.3. Function

5. Tools
5.1. 0-Calibrate
5.2. Force output
5.3. Reload parameters
5.4. Factory reset
5.5. Info

6. Settings
6.1. Language

1.1. Function

Select whether the regulator should operate with constant or variable pressure/airflow. If the product is configured as a pressure regulator, the choice can be made between CAP and VAP functions. If it is configured as an airflow regulator, the choice can be made between CAV and VAV functions.

1.2. Setpoint

This is only displayed during constant regulation (CAP or CAV) and indicates the regulator's fixed setpoint. The unit is the same as that selected for the entire product. The valid range is 0 to 2000 Pa for pressure regulation and 0 to Nominal value for airflow regulation.

1.3. Ain1 Range

This is only displayed during variable regulation (VAP or VAV) and indicates the voltage range for the control input signal on analogue input 1. The signal is converted via Min and Max into a setpoint used by the regulator. One of four different ranges can be selected: 0–10V, 2–10V, 10–2V or 10–0V. For ranges where Min is greater than Max, such as 10–1V, the input signal is inverted so that 10V is interpreted as 0V and 2V is interpreted as 10V.

1.4. Min

This is only displayed during variable regulation (VAP or VAV) and indicates the setpoint at the minimum range of the input signal (Ain1). The regulator's setpoint can never fall below this limit. The unit is Pa for pressure regulation and 0 to Nominal for airflow regulation. For example, if Ain1 Range is 2–10V and Min is set to 50 Pa, the regulator's setpoint will be 50 Pa when the input voltage is between 0 and 2V.

1.5. Max

This is only displayed during variable regulation (VAP or VAV) and indicates the setpoint at the maximum range of the input signal (Ain1). The regulator's setpoint can never exceed this limit. The unit is Pa for pressure regulation and 0 to Nominal for airflow regulation. For example, if Ain1 Range is 2–10V and Max is set to 150 Pa, the regulator's setpoint will be 150 Pa when the input voltage is 10V.

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2.1. Address

The product's address in a MODBUS network. The product will only respond to data addressed to this address, with the exception of broadcast address 0, to which it always responds. Permitted addresses are 1 to 247. The product never sends a response to a broadcast on address 0, so it is only useful to send write commands via broadcast.

2.2. Baudrate

The communication speed for MODBUS. One of the standard speeds specified in the MODBUS specification can be selected: 9600, 19200, 38400 or 57600. If the baud rate does not match the master's baud rate, communication cannot take place.

2.3. Parity

Selection of the parity bit for MODBUS communication. It must match the master's parity setting and can be selected as none, odd or even.

2.4. Stop bits

Selection of stop bits for MODBUS communication. The setting must match the master's stop bit setting and can be selected as 1 or 2. According to the MODBUS specification, this should be 2 if no parity is selected and 1 if odd or even parity is used. The specification can be overridden if desired, allowing 1 or 2 to be selected regardless of the parity setting, for compatibility with non-standard devices.

3.1. Aout 1 range Volt

Sets the output signal range for analogue output 1, which controls a damper or similar device. The regulator controls the output signal so that the actual value matches the setpoint. The available ranges are 0–10V, 2–10V, 10–2V and 10–0V. For ranges where Min is greater than Max, such as 10–2V, the output signal is inverted so that a 100% control signal corresponds to 2V and a 0% output signal corresponds to 10V. In these cases, the regulator operates in reverse, meaning that it increases the output signal if the actual value is greater than the setpoint.

3.2. Aout 2 range Volt

Sets the output signal range for analogue output 2, which reflects the pressure sensor. The pressure sensor controls the output signal so that the configured pressure range corresponds to the selected output range. The available ranges are 0–10V, 2–10V, 10–2V and 10–0V. For ranges where Min is greater than Max, such as 10–2V, the output signal is inverted so that a 100% control signal corresponds to 2V and a 0% output signal corresponds to 10V.

3.3. Aout 2 range

This option is only displayed during pressure regulation and sets the pressure range that the output signal on analogue output 2 should represent. Pressures exceeding the maximum limit of the range are output as a 100% signal. During airflow regulation, no pressure range can be selected. Instead, the range 0–Nominal is always used.

4.1.1. Mode

Specifies how digital input 1 should be activated.
See Digital Inputs on page 7.

4.1.2. Active level

Specifies whether digital input 1 is activated when the contact closes or opens.

4.1.3. Function

Specifies what digital input 1 should do when activated.
See Functions for Digital Inputs with Pressure Regulation on page 8 and Functions for Digital Inputs with Airflow Regulation on page 7.

4.2.1. Mode

Specifies how digital input 2 should be activated.
See Digital Inputs on page 7.

4.2.2. Active level

Specifies whether digital input 2 is activated when the contact closes or opens.

4.2.3. Function

Specifies what digital input 2 should do when activated.
See Functions for Digital Inputs with Pressure Regulation on page 8 and Functions for Digital Inputs with Airflow Regulation on page 7.

5.1. 0-Calibrate

Zero-calibrates the pressure sensor. Ensure that a stable zero pressure is maintained before starting calibration. During calibration, the correction is displayed in real time until calibration is complete.

5.2. Force output

A commissioning function that allows the output signal on analogue output 1 to be set to a fixed value for a specified period of time. This fixed value is not affected by other factors, such as the regulator or digital inputs. Once the countdown reaches 0, the product returns to its previous operating mode.

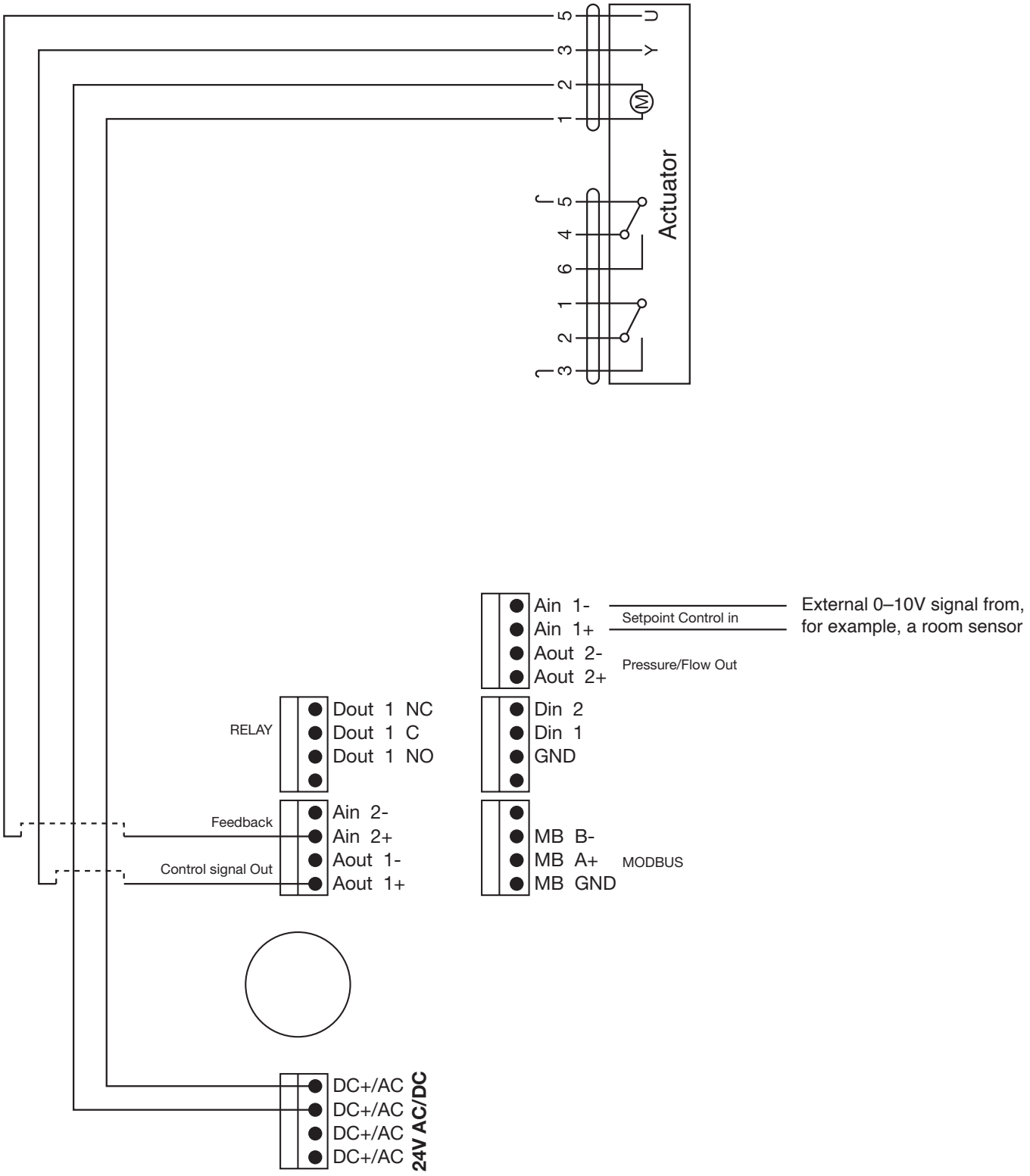
5.3. Reload parameters

Restores all parameters to their most recently saved values, except those protected by a PIN code. The protected values are: Speed, K-factor and Nominal.

5.4. Factory reset

Resets all parameters, except those protected by a PIN code, to their hard-coded default values. The protected values are: Speed, K-factor and Nominal.

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5
3
2
1
U
Y
M
Actuator
5
4
6
1
2
3
Ain 1-
Ain 1+
Setpoint Control in
External 0–10V signal from,
for example, a room sensor
Aout 2-
Aout 2+
Pressure/Flow Out
RELAY
Dout 1 NC
Dout 1 C
Dout 1 NO
Din 2
Din 1
GND
Feedback
Ain 2-
Ain 2+
Control signal Out
Aout 1-
Aout 1+
MB B-
MB A+
MB GND
MODBUS
DC+/AC
DC+/AC
DC+/AC
DC+/AC
24V AC/DC

Analogue Inputs

The analogue inputs read an external 0–10 Volt signal. An external signal can, for example, come from sensors or other control devices. Analogue input 1 is used as a variable setpoint in the regulator when variable regulation is selected. Analogue input 2 only reports the external 0–10 Volt signal to MODBUS.

Analogue Input 1 (Ain1)

When variable pressure/airflow is selected as the function, the external signal from analogue input 1 is used as the setpoint in the regulator.

The voltage input range can be set to 0–10, 2–10, 10–2 or 10–0 Volt and generates an absolute setpoint in the regulator. The setpoint range is the same as the system's Min/Max parameters.

Parameters for Analogue Input 1

- Input range in Volt.

Analogue Input 2 (Ain2)

In this product, analogue input 2 (Ain2) will always report the measured 0–10 Volt signal via the MODBUS slave. The intention is to connect the damper's feedback signal here (if the damper has one), but in practice any external analogue signal can be connected and will then be reported via MODBUS as 0–10 Volt.

Parameters for Analogue Input 2

No parameters are available for Ain2. The input range is always 0–10 Volt.

Analogue Outputs

The product has two analogue outputs, both of which have a selectable voltage output range. Via the menu, they can be individually set to 0–10, 2–10, 10–2 or 10–0 Volt.

By selecting 10–2 or 10–0, the output signal is inverted. This means that 10 Volt becomes 0 or 2 Volt respectively, and 0 or 2 Volt becomes 10 Volt respectively. This is used when reverse signal operation is required.

Analogue Output 1 (Aout1)

This is the control signal from the regulator, which is connected to a damper or similar control device. Normally, the control signal decreases when the regulator's actual value exceeds the setpoint. By inverting the signal (see Analogue Inputs), the control signal can instead increase when the actual value exceeds the setpoint.

There is no direct relationship between the output signal and the current pressure/airflow, as the regulator adjusts this signal up or down until the actual value and setpoint are equal.

Parameters for Analogue Output 1

- Output range in Volt.

Analogue Output 2 (Aout2)

The actual value from the built-in pressure sensor is transmitted via analogue output 2 within the selected voltage range. This range corresponds to the selected pressure range in Pa for the output.

Parameters for Analogue Output 2

- Output range in Volt.
- For pressure regulation: Signal range selectable from the list of pressure ranges.
- For airflow regulation: Signal range is fixed between 0 and the nominal value.

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Digital Inputs

Common to all digital inputs (Din1 and Din2) is that they have a configurable active level, mode and forced setpoint. The active level determines whether the forced setpoint should be activated when the input is open or closed. If both digital inputs are active simultaneously, Din1 takes priority over Din2.

The digital inputs can also be activated remotely via MODBUS, depending on the mode, using the MODBUS registers MBin1 and MBin2.

Each digital input has 5 modes.

Disabled The input is disabled and does not respond to either an external digital signal or a MODBUS signal.

Hardware The input can only be activated via an external digital signal at the terminal. MODBUS has no effect.

MODBUS The input can only be activated via MODBUS. An external digital signal at the terminal has no effect.

Hardware or MODBUS The input can be activated by MODBUS and/or an external signal at the terminal (OR function).

Hardware + MODBUS Both MODBUS and the external signal at the terminal must be active (AND function). This mode allows MODBUS to remotely control whether the external digital signal at the terminal is permitted or not.

Functions for Digital Inputs with Airflow Regulation

Both digital inputs can have an individual function associated with their active level.

Fully Open Damper The regulator is disabled and analogue output 1 is set to 100%.

Fully Closed Damper The regulator is disabled and analogue output 1 is set to 0%.

Preset Airflow The regulator's setpoint is set to a preset value for each digital input. This setpoint can be different for Din1 and Din2. The value can be set between 0 and Nominal.

Min. Airflow The regulator's setpoint is set to the Min parameter in the adjustable Min/Max range. This option is only available during variable regulation.

Max. Airflow The regulator's setpoint is set to the Max parameter in the adjustable Min/Max range. This option is only available during variable regulation.

Functions for Digital Inputs with Pressure Regulation

Both digital inputs can have an individual function associated with their active level.

Fully Open Damper The regulator is disabled and analogue output 1 is set to 100%.

Fully Closed Damper The regulator is disabled and analogue output 1 is set to 0%.

Preset Pressure The regulator's setpoint is set to a preset value for each digital input. This setpoint can be different for Din1 and Din2.

Min. Pressure The regulator's setpoint is set to the Min parameter in the adjustable Min/Max range. This option is only available during variable regulation.

Max. Pressure The regulator's setpoint is set to the Max parameter in the adjustable Min/Max range. This option is only available during variable regulation.

MODBUS

The product is equipped with a MODBUS slave for remote control and remote monitoring via a MODBUS master. The slave address and communication parameters can be selected, and are only accessible, via the Menu.

The slave only supports the RTU protocol over RS-485.

Parameters

The following communication parameters can be selected:

- Baud rates: 9600, 19200, 38400, 57600.
- Parity: None, Odd, Even.
- Stop bits: 1 or 2.
- Slave address: 1 to 247.
- Broadcast reception.

Registers

In principle, most parameters found in the menu can also be read and written via the MODBUS slave. In addition to the parameters accessible via the Menu, there is also a status register and a status mask. The status register is read-only and contains the product's current status code. This code indicates whether a fault has been detected and, if so, which fault. If several faults are detected, the one with the highest priority is displayed.

The status mask is a bitmask that provides a quick overview of all digital inputs and outputs.

The majority of all parameters are Holding Registers (read and write registers) with corresponding Input Registers (read-only).

Digital inputs and outputs are also available as Coil Registers (read and write registers) and Discrete Input Registers (read-only).

All registers containing values related to pressure/airflow are displayed in the selected unit: Pa, l/s, m^3/s or m^3/h. To determine which unit is being used, it can be read as a unit code in one of the registers. This unit code can only be read via MODBUS. To change the unit, the customer must do so manually via the display. The same applies when entering these values via MODBUS. They must be entered in the same unit as selected.

If the regulator is configured to operate with pressure (in the PIN code-protected menu), it is naturally not possible to select any unit other than Pascal, and consequently all MODBUS values are always in Pascal.

Test mode

Test/simulation mode can be activated via MODBUS Holding Register 4x0030 (or Coil Register 0x0007) by writing 1 to either of these registers. This can be used to trigger certain operating conditions to test the system's settings and behaviour.

In this mode, certain inputs do not use the actual signal but instead use a value assigned via MODBUS. This allows, for example, a specific pressure or analogue signal to be simulated. The system responds to these simulated values as if they were actual measured values.

The following inputs can be simulated in this product:

- Pressure/Airflow Sensor (Holding Register 4x0000)
- Analogue Input 1 (Holding Register 4x0004)
- Analogue Input 2 (Holding Register 4x0006)

The two digital inputs can already be controlled via MODBUS using their MODBUS registers or activated via the terminals as normal.

To return to normal operation, deactivate test mode by writing 0 to Holding Register 4x0030 or Coil Register 0x0007.

In addition to the Coil and Holding Registers, bit 13 in the status mask is also set to indicate test mode.

Appendix 1 – MODBUS Registers

These registers can be read and, where permitted, written for remote control or monitoring. Coil Registers can only be off or on (0 or 1), and can be read and, where permitted, written. Discrete Inputs are the same as Coil Registers but are read-only.

Holding Registers can contain a value between 0 and 65535. Input Registers are the same as Holding Registers but are read-only.

The value is often divided by a power of 10 to obtain decimal places. Divide the register value by the value in the Factor column to convert it to its original form.

For example, if Holding Register 4x0006 contains the value 123, this is divided by its factor of 100, resulting in 1.23 Volt.

For VAV/VAP control, the setpoint signal (0–10V or 2–10V) must be connected to Ain 1- and Ain 1+.

The Min value can be set in Holding Register 4x0019.

The Max value can be set in Holding Register 4x0020.

For CAV/CAP control, the setpoint is written to Holding Register 4x0021.

All values written to A-CTRL are stored in volatile memory. This means that the value is only retained as long as A-CTRL is powered. If the power supply to A-CTRL is interrupted, the setting is lost.

To save modified parameters in EEPROM, write a value of 2 to Holding Register 4x0033. If this is done after a value has been changed, the setting will be retained even after a power failure.

NOTE! Too many writes to EEPROM may cause the memory to become full, preventing any further changes from being saved. This function should therefore be used with care.

Coil register

Address	Register content	Factor	Value range	Read/Write
0x0000	Digital input 1 plint	X1	0 – 1	R
0x0001	Digital input 1 modbus	X1	0 – 1	R/W
0x0002	Digital input 1 activation level	X1	0 – 1	R/W
0x0003	Digital input 2 plint	X1	0 – 1	R
0x0004	Digital input 2 modbus	X1	0 – 1	R/W
0x0005	Digital input 2 activation level	X1	0 – 1	R/W
0x0006	Digital output 1	X1	0 – 1	R/W
0x0007	Test mode On/Off	X1	0 – 1	R/W

Discrete input register

Address	Register content	Factor	Value range	Read/Write
1x0000	Digital input 1 plint	X1	0 – 1	R
1x0001	Digital input 1 modbus	X1	0 – 1	R
1x0002	Digital input 1 activation level	X1	0 – 1	R
1x0003	Digital input 2 plint	X1	0 – 1	R
1x0004	Digital input 2 modbus	X1	0 – 1	R
1x0005	Digital input 2 activation level	X1	0 – 1	R
1x0006	Digital output 1	X1	0 – 1	R
1x0007	Test mode On/Off	X1	0 – 1	R

Input Registers

These are the same as the Holding Registers, with the difference that they are read-only. Writing has no effect.

Address	Register content	Factor	Value range	Read only
3x0000	Process Pressure/Flow	X1, X100	0 – 2000	R
3x0001	Mean process pressure/Flow	X1, X100	0 – 2000	R
3x0002	Pressure/Flow unit code	X1	0 – 3	R
3x0003	Regulator process setpoint pressure/flow	X1	0 – 2000	R
3x0004	Analog input 1 Volt	X100	0 – 1000	R
3x0005	Analog input 1 range Volt config.	X1	0 – 3	R
3x0006	Analog input 2 Volt	X100	0 – 1000	R
3x0007	Digital input 1 plint	X1	0 – 1	R
3x0008	Digital input 1 modbus	X1	0 – 1	R
3x0009	Digital input 1 activation level	X1	0 – 1	R
3x0010	Digital input 1 mode config.	X1	0 – 3	R
3x0011	Digital input 1 function config.	X1	0 – 3	R
3x0012	Digital input 1 override setpoint pressure/flow	X1	0 – 2000	R
3x0013	Digital input 2 plint	X1	0 – 1	R
3x0014	Digital input 2 modbus	X1	0 – 1	R
3x0015	Digital input 2 activation level	X1	0 – 1	R
3x0016	Digital input 2 mode config.	X1	0 – 3	R
3x0017	Digital input 2 function config.	X1	0 – 3	R
3x0018	Digital input 2 override setpoint pressure/Flow	X1	0 – 2000	R
3x0019	Min pressure/flow	X1	0 – 2000	R
3x0020	Max pressure/flow	X1	0 – 2000	R
3x0021	Regulator Constant setpoint pressure/flow	X1	0 – 2000	R
3x0022	K-Factor	X10		R
3x0023	Nominal flow	X1		R
3x0024	Digital output 1	X1	0 – 1	R
3x0025	Analog output 1 Volt	X100	0 – 1000	R
3x0026	Analog output 1 range Volt config.	X1	0 – 3	R
3x0027	Analog output 2 Volt	X100	0 – 1000	R
3x0028	Analog output 2 range Volt config.	X1	0 – 3	R
3x0029	Analog output 2 range pressure config.	X1	0 – 5	R
3x0030	Test mode On/Off	X1	0 – 1	R
3x0031	Status code	X1	0, 2 – 4	R
3x0032	Status mask	X1	0 – 65535	R

Holding registers

Address	Register content	Factor	Value range	Read/Write
4x0000	Process Pressure/Flow	X1, X100	0 – 2000	R
4x0001	Mean process pressure/Flow	X1, X100	0 – 2000	R
4x0002	Pressure/Flow unit code	X1	0 – 3	R
4x0003	Regulator process setpoint pressure/flow	X1	0 – 2000	R
4x0004	Analog input 1 Volt	X100	0 – 1000	R/t
4x0005	Analog input 1 range Volt config.	X1	0 – 3	R/W
4x0006	Analog input 2 Volt	X100	0 – 1000	R/t
4x0007	Digital input 1 plint	X1	0 – 1	R/W
4x0008	Digital input 1 modbus	X1	0 – 1	R
4x0009	Digital input 1 activation level	X1	0 – 1	R/W
4x0010	Digital input 1 mode config.	X1	0 – 3	R/W
4x0011	Digital input 1 function config.	X1	0 – 3	R/W
4x0012	Digital input 1 override setpoint pressure/flow	X1	0 – 2000	R/W
4x0013	Digital input 2 plint	X1	0 – 1	R/W
4x0014	Digital input 2 modbus	X1	0 – 1	R
4x0015	Digital input 2 activation level	X1	0 – 1	R/W
4x0016	Digital input 2 mode config.	X1	0 – 3	R/W
4x0017	Digital input 2 function config.	X1	0 – 3	R/W
4x0018	Digital input 2 override setpoint pressure/Flow	X1	0 – 2000	R/W
4x0019	Min pressure/flow	X1	0 – 2000	R/W
4x0020	Max pressure/flow	X1	0 – 2000	R/W
4x0021	Regulator Constant setpoint pressure/flow	X1	0 – 2000	R/W
4x0022	K-Factor	X10		R
4x0023	Nominal flow	X1		R
4x0024	Digital output 1	X1	0 – 1	R/W
4x0025	Analog output 1 Volt	X100	0 – 1000	R
4x0026	Analog output 1 range Volt config.	X1	0 – 3	R/W
4x0027	Analog output 2 Volt	X100	0 – 1000	R
4x0028	Analog output 2 range Volt config.	X1	0 – 3	R/W
4x0029	Analog output 2 range pressure config.	X1	0 – 5	R/W
4x0030	Test mode On/Off	X1	0 – 1	R/W
4x0031	Status code	X1	0, 2 – 4	R
4x0032	Status mask	X1	0 – 65535	R
4x0033	Command	X1	1 – 3	W
4x0034	Command parameter	X1	0 – 65535	R/W

R:Read, W:Write, t:Write in testmode only.

Slave Device ID

The product supports MODBUS function 17 – Slave Device ID.

99010001;TBD;TBD;xx.xx

xx.xx is the software version. The TBD fields have not yet been determined.

Device information

The product supports MODBUS function 46/14 – Read Device Identification.

Object ID	Object name	Value (ASCII Strings)	M/O	Category
0x00	VendorName	Bevent Rasch	Mandatory	Basic
0x01	ProductCode	7200001	Mandatory	Basic
0x02	MajorMinorRevision	(Firmware version)	Mandatory	Basic
0x03	VendorURL	bevent-rasch.se	Optional	Regular
0x04	ProductName	A-CTRL	Optional	Regular
0x05	ModelName	A-CTRL	Optional	Regular
0x06	UserApplicationName	HVAC	Optional	Regular
0x80	VID	9901	Optional	Extended
0x81	PID	0001	Optional	Extended
0x82	Firmware compile time & Date	(Automatic at compile time)	Optional	Extended

Appendix 1 – Configuration and Error Codes

Error Codes

Error codes can be displayed as a repeating pulse sequence on the red LED, corresponding to the numerical error code. This means two pulses for error code 2, and so on. The error code can also be read via MODBUS.

Code	Status	Description
0	OK	No errors or warnings
2	Params Not Saved	The system is using unsaved parameters
3	Aout 2 shorted	Analogue output 2 is short-circuited
4	Aout 2 overload	Analogue output 2 is overloaded

Analogue output 1 is not capable of detecting faults.

Status Mask

The status mask is a 16-bit value where each bit indicates a specific event or status.

Bit	Status	Description	Bit Mask (HEX)
0		*Reserved, always 0*	
1		*Reserved, always 0*	
2	Aout 2 Short	Analogue output 2 is short-circuited	0004
3	Aout 2 Overload	Analogue output 2 is overloaded	0008
4	Din1	Din1 signal active	0010
5	MBin1	Din1 Modbus signal	0020
6	Din2	Din2 signal active	0040
7	MBin2	Din2 Modbus signal	0080
8	Error	A fault has been detected, read the error code	0100
9	Data changed	One or more parameters have been changed but not saved	0200
10		*Reserved, always 0*	
11	Forced output	The product is in commissioning mode with a fixed output signal	0800
12		*Reserved, always 0*	
13	Test mode	The product is in test mode	2000
14		*Reserved, always 0*	
15		*Reserved, always 0*	

Voltage Range

Code	Voltage Range	0%	25%	50%	75%	100%
0	0 – 10 V	0.0 V	2.5 V	5.0 V	7.5 V	10.0 V
1	2 – 10 V	2.0 V	4.0 V	6.0 V	8.0 V	10.0 V
2	10 – 2 V	10.0 V	8.0 V	6.0 V	4.0 V	2.0 V
3	10 – 0 V	10.0 V	7.5 V	5.0 V	2.5 V	0.0 V

Unit Codes

Code	Unit	Description
0	Pascal	Pressure in pascals with 0 decimal places
1	L/s	Litres per second with 0 decimal places
2	m^3/s	Cubic metres per second with 3 decimal places
3	m^3/h	Cubic metres per hour with 0 decimal places

Pressure Range

Code	Pressure Range (Pa)	0%	25%	50%	75%	100%
0	0 – 100	0 Pa	25 Pa	50 Pa	75 Pa	100 Pa
1	0 – 300	0 Pa	75 Pa	150 Pa	225 Pa	300 Pa
2	0 – 500	0 Pa	125 Pa	250 Pa	375 Pa	500 Pa
3	0 – 700	0 Pa	175 Pa	350 Pa	525 Pa	700 Pa
4	0 – 1000	0 Pa	250 Pa	500 Pa	750 Pa	1000 Pa
5	0 – 2000	0 Pa	500 Pa	1000 Pa	1500 Pa	2000 Pa

Digital Input Mode

Code	Mode	Description
0	Off	Inactive and does not respond to either signal or MODBUS
1	Hardware	Responds only to the hardware signal
2	MODBUS	Responds only to the MODBUS signal
3	Hardware | MODBUS	Responds to either the hardware or MODBUS signal
4	Hardware + MODBUS	Responds only when both the hardware and MODBUS signals are active at the same time

Digital Input function

Code	Function	Description
0	Full Open	Analogue output 1 is controlled to 100%
1	Full Close	Analogue output 1 is controlled to 0%
2	Custom	The controller's setpoint is overridden by the input's setpoint
3	Min	The controller's setpoint is forced to the minimum value[1]
4	Max	The controller's setpoint is forced to the maximum value[1]

[1] *Max and Min can only be selected if the controller is operating as a flow controller.*