

# GEMÜ 1436 cPos

*Intelligent positioner and integrated process controller*



## Features

- Digital inputs (option) for variable function control for automation
- Fieldbus interfaces e.g. Profibus DP, Profinet and DeviceNet (option)
- No air consumption when idle
- Simple mounting to various valve actuators
- Access rights via different user levels

## Description

The GEMÜ 1436 cPos digital electro-pneumatic positioner is used with an optional integrated process controller to control pneumatically operated process valves with single-acting or double-acting linear or quarter turn actuators. When using the optional process controller, the signals from the process sensor (e.g. flow, level, pressure, temperature) are detected and the media adjusted according to the specified set value. The positioner has a robust housing with protected operating buttons and an easy-to-read, backlit LCD display.

## Technical specifications

- Supply voltage: 24 V DC
- Flow rate\*: 150 l/min | 200 l/min | 300 l/min
- Ambient temperature\*: 0 to 60 °C
- Conformities: EAC | EMC Directive

\* depending on version and/or operating parameters



further information  
webcode: GW-1436



## Product line



Controller type				
Positioner	●	●	●	●
Positioner and process controller	-	-	-	●
<b>Flow rate</b>	15 Nl/min	150 l/min 200 l/min	50 Nl/min 90 Nl/min	150 l/min 200 l/min 300 l/min
<b>Ambient temperature</b>	0 to 60 °C	0 to 60 °C	-20 to 60 °C	0 to 60 °C
Housing material				
Aluminium	-	-	●	-
Housing cover: PP / housing base: Aluminium or stainless steel	●	-	-	-
Housing cover: PSU / housing base PP30	-	●	-	●
Control function of valve actuator				
Double acting	-	-	●	●
Single acting	●	●	●	●
Detection range				
Max. 30 mm, linear	●	●	●	●
Max. 50 mm, linear	-	●	●	●
Max. 75 mm, linear	-	●	●	●
Max. 90°, radial	-	●	●	●
Display				
No	●	●	-	-
Yes	-	-	●	●
Input option				
No	●	●	-	-
Yes	-	-	●	●

## Product description



Item	Name	Materials
1	Operating and display elements, membrane keypad	Polyester film with acrylic glass
2	Housing cover	PSU
3	Housing base	PP 30
4	Mounting kit, valve specific	Materials, parts valve specific

### Functions

- Positioner and process controller combined and synchronized with each other
- Automatic or manual optimizing initialisation
- Multiple point calibration for optimized valve control
- Diagnostics, alarm messages
- Operation possible when controller is active
- 4 parameter sets can be saved and reloaded
- 3 user levels (access authorization)
- Operating hours counter, event list (for details see operating instructions)
- Digital inputs (option) for variable function control for automation
- Alphanumeric display, 2 lines with 16 digits each, with background light

## GEMÜ CONEXO

The interaction of valve components that are equipped with RFID chips and an associated IT infrastructure actively increase process reliability.



Thanks to serialization, every valve and every relevant valve component such as the body, actuator or diaphragm, and even automation components, can be clearly traced and read using the CONEXO pen RFID reader. The CONEXO app, which can be installed on mobile devices, not only facilitates and improves the "installation qualification" process, but also makes the maintenance process much more transparent and easier to document. The app actively guides the maintenance technician through the maintenance schedule and directly provides him with all the information assigned to the valve, such as test reports, testing documentation and maintenance histories. The CONEXO portal acts as a central element, helping to collect, manage and process all data.

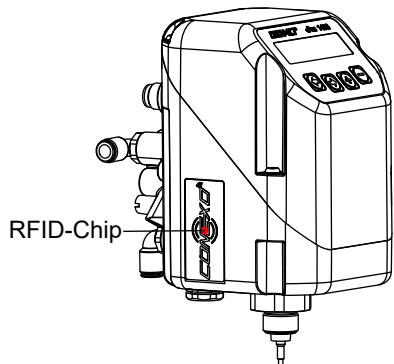
For further information on GEMÜ CONEXO please visit:

[www.gemu-group.com/conexo](http://www.gemu-group.com/conexo)

### Ordering

GEMÜ Conexo must be ordered separately with the ordering option "CONEXO" (see order data).

### Anbringung des RFID-Chips



## Availability

Action	Flow rate		
	150 l/min	200 l/min	300 l/min (Booster)
Single acting	X	X	X
Double acting	X	X	-
Option code <sup>1)</sup>	Fieldbus		
	Without	DeviceNet	Profibus DP
00	X	X	X
01	X	-	-

1) **Option**

Code 00: Without

Code 01: 2 additional digital inputs 24 V DC

## Order data

The order data provide an overview of standard configurations.

Please check the availability before ordering. Other configurations available on request.

Note: Pneumatic connecting components (union and compressed air tube) for the connection between the process valve and positioner are included with each positioner.

Note: A valve specific mounting kit is required for assembly. For designing the mounting kit, the valve type, nominal size, control function and actuator size must be stated.

## Order codes

<b>1 Type</b>	<b>Code</b>	<b>7 Flow rate</b>	<b>Code</b>
Positioner, electro-pneumatic cPos	1436	150 l/min	01
		200 l/min	02
		300 l/min (Booster)	03
<b>2 Fieldbus</b>	<b>Code</b>	<b>8 Travel length</b>	<b>Code</b>
Without	000	Potentiometer, 30 mm length	030
DeviceNet	DN	Potentiometer, 50 mm length	050
Profibus DP	DP	Potentiometer, 75 mm length	075
Profinet	PN	Potentiometer, 90° travel	090
<b>3 Accessory</b>	<b>Code</b>	Remote potentiometer, M12 connector	S01
Accessory	Z		
<b>4 Action</b>	<b>Code</b>	<b>9 Type of design</b>	<b>Code</b>
Single acting	1	Standard	
Double acting	3	Dead zone presetting 2%	2442
		Dead zone presetting 5%	2443
		Inversed direction, for quarter turn valves control function NO (2)	6960
<b>5 Device version</b>	<b>Code</b>	<b>10 CONEXO</b>	<b>Code</b>
Positioner	SA01	Without	
Positioner and process controller	PA01	Integrated RFID chip for electronic identification and traceability	C
<b>6 Option</b>	<b>Code</b>		
Without	00		
2 additional digital inputs 24 V DC	01		

## Order example

Order option	Code	Description
1 Type	1436	Positioner, electro-pneumatic cPos
2 Fieldbus	000	Without
3 Accessory	Z	Accessory
4 Action	1	Single acting
5 Device version	SA01	Positioner
6 Option	00	Without
7 Flow rate	01	150 l/min
8 Travel length	030	Potentiometer, 30 mm length
9 Type of design		Standard
10 CONEXO		Without

## Technical data

### Medium

<b>Working medium:</b>	Compressed air and inert gases
<b>Dust content:</b>	$\leq 10 \text{ mg/m}^3$ /particle size $\leq 40 \mu\text{m}$ (class 7)
<b>Pressure dew point:</b>	Class 4, max. pressure dew point $+3^\circ\text{C}$
<b>Oil content:</b>	Class 4, max. oil concentration $5 \text{ mg/m}^3$ Quality classes to DIN ISO 8573-1

### Temperature

<b>Storage temperature:</b>	0 to $60^\circ\text{C}$
<b>Ambient temperature:</b>	0 to $60^\circ\text{C}$

### Product compliance

<b>EMC Directive:</b>	2014/30/EU
Technical standards used:	
Interference emission:	DIN EN 61000-6-4 (09/2011) DIN EN 61326-1(industry) (10/2006)
Interference resistance:	DIN EN 61000-6-2 (03/2006) DIN EN 61326-1(industry) (10/2006)

### Pressure

<b>Operating pressure:</b>	1.5 to 7 bar The applied pressure must not exceed the maximum control pressure of the process valve.
<b>Flow rate:</b>	150 l/min (flow rate code 01) 200 l/min (flow rate code 02) 300 l/min (Booster) (flow rate code 03)
<b>Air consumption:</b>	0 l/min (when idle)

### Mechanical data

<b>Installation position:</b>	Optional
<b>Protection class:</b>	IP 65 acc. to EN 60529
<b>Weight:</b>	600 g
<b>Travel sensor:</b>	Integrated for direct mounting

	Linear design			Quarter turn design
<b>Detection range:</b>	0–30 mm	0 - 50 mm	0 - 75 mm	Angle of rotation $0 - 93^\circ$
<b>Operating range:</b>	0–30 mm	0 - 50 mm	0 - 75 mm	Angle of rotation $0 - 93^\circ$
<b>Minimum travel sensor change:</b>	$\geq 3\%$ (only relevant for initialisation)			
<b>Resistance R:</b>	3 k $\Omega$	5 k $\Omega$	5 k $\Omega$	3 k $\Omega$
<b>Correlation - Travel sensor 1) spindle/valve position</b>	Retracted (top) $\leq 100\%$ (valve open)			90° $\leq 100\%$ (valve open)

**Travel sensor:**

	Linear design	Quarter turn design
	Extended (bottom) ≤ 0 % (valve closed)	0° ≤ 0 % (valve closed)

1) Design code 6960: Inversed mode of action compared with description (Travel sensor signal inversed). For valves with inverted correlation.

**Acoustic data**

**Noise emission:**

> 80 dB (A)

## Electrical data

### Power supply

**Supply voltage:** 24 V DC (-5/+10%)

#### Power consumption:

		Order variant fieldbus Profinet
Single acting:	≤ 5.2 W	≤ 8.6 W
Double acting / Booster:	≤ 7.1 W	≤ 10.7 W
plus in each case:	max. 36 W for active digital outputs with max. on-load current	

**Reverse battery protection:**

Yes

**Duty cycle:** Continuous duty

**Electrical protection class:**

III

### Analogue inputs

**Set value / actual value:**

- Set value and actual value input are galvanically isolated from the supply voltage
- Set value and actual value input are **not** galvanically isolated from the actual value output
- Set value and actual value input are **not** galvanically isolated from each other

**Set value input:** 0/4 - 20 mA (adjustable)

**Process actual value input:** 0/4 - 20 mA (adjustable)  
Only for device version code PA01

**Input type:** passive

**Input resistance:** 120 Ω (+ approx. 0.7 V voltage drop due to reverse battery protection)

**Accuracy/linearity:** ≤ ±0.3% of full flow

**Temperature drift:** ≤ ±0.3% of full flow

**Resolution:** 12 bit

**Reverse battery protection:**

Yes

**Overload proof:** Yes (up to ± 24 V DC)

### Analogue output

**Actual value output:** 4 - 20 mA

**Output type:** active

**Load resistor:** Max. 600 Ω

**Accuracy:** ≤ ±1% of full flow

**Temperature drift:** ≤ ±0.5% of full flow

**Resolution:** 12 bit

**Short-circuit proof:** Yes

**Overload proof:** Yes (up to ± 24 V DC)

### Digital input

<b>Note:</b>	The additional digital inputs 1 / 2 must be ordered via the ordering option "Option". In the fieldbus versions, the function of the digital inputs can be used as standard via the bus communication.
<b>Inputs:</b>	1 / 2
<b>Function:</b>	selectable via software (DigIn 1; DigIn2; DigInW; DigInX) (reference: GND X1:3)
<b>Input voltage:</b>	24 V DC
<b>Input current:</b>	2,5 mA DC at 24 V DC
<b>High level:</b>	>14 V DC
<b>Low level:</b>	< 8 V DC

### Digital output

<b>Switching outputs:</b>	K1 / K2
<b>Function:</b>	selectable using software
<b>Switching voltage:</b>	Supply voltage
<b>On-load current:</b>	max. 0.5 A
<b>Drop voltage:</b>	Max. 2.5 V DC at 0.5 A
<b>Type of contact:</b>	PNP
<b>Pull-Down resistance:</b>	120 kΩ
<b>Short-circuit proof:</b>	Yes
<b>Overload proof:</b>	Yes (up to ± 24 V DC)

### Travel sensor input (for travel length code S01 – remote potentiometer)

<b>Note:</b>	Travel sensor input galvanically isolated from supply voltage, not galvanically isolated from the set value/actual value inputs and actual value output.
<b>Input voltage range:</b>	0 to UP+
<b>Supply voltage <math>U_{p+}</math>:</b>	Typically 10 V DC
<b>Resistance range of remote potentiometers:</b>	1 to 10 kΩ
<b>Input resistance:</b>	620 kΩ
<b>Accuracy/linearity:</b>	≤ ±0.3% of full flow
<b>Temperature drift:</b>	≤ ±0.3% of full flow
<b>Resolution:</b>	12 bit
<b>Short-circuit proof:</b>	Yes
<b>Overload proof:</b>	Yes (up to ± 24 V DC)

## Positioner data

### Note:

Following diagram valid for valves with standard correlation between spindle position and valve position.  
(See section "Mechanical data, correlation between travel sensor spindle/valve position")

### Control diagram:

Default setting / The control characteristic is adjustable.



During initialisation, the 1436 cPos positioner automatically detects the control function of the valve and adjusts itself by default so that the valve is closed when the signal is 0/4 mA.\*  
The assignment can be changed subsequently by means of parameters.

\* with double acting actuators dependent on pneumatic actuator

## Positioner

### Control error:

1 % default setting  
 $\geq 0.1$  % (adjustable)  
 $\leq 2.0$  % (preset, K-no. 2442)  
 $\leq 5.0$  % (preset, K-no. 2443)

### Parameterisation:

adjustable

### Initialisation:

automatic or manual

### Close tight function:

option

## Process controller

Option only for device version code PA01

### Controller type:

Continuous controllers

### PID parameters:

adjustable

### Process actual value input:

0/4 - 20 mA (adjustable)

## Interfaces

	RS232	Profibus DP	DeviceNet	Profinet
Function*	Parameterisation* via web browser	Parameterisation*/process data		
Transmission rates	-	9.6k /19.2k / 45.45k / 93.75k / 500k baud	125k / 250k / 500k baud	100M baud**

\* At the device: Menu selection - context sensitive or help texts

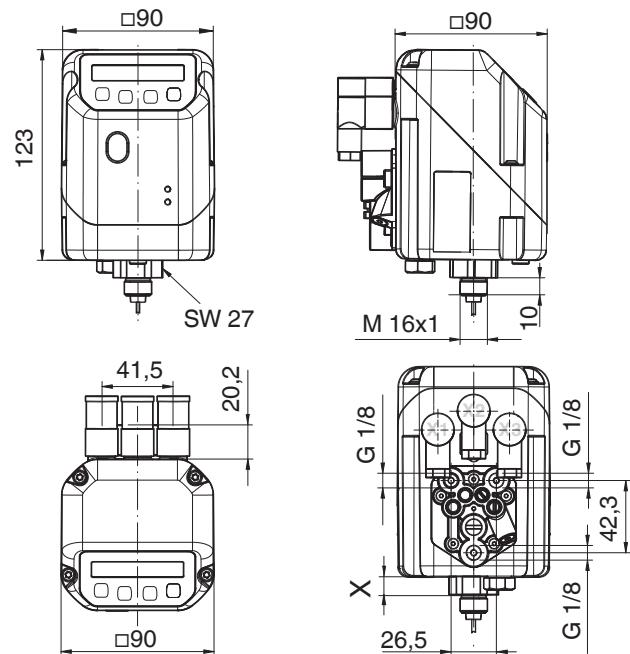
At the PC: Internet MS® Internet Explorer

\*\* Two switches are connected in series internally between connection X1 and X3. Communication lead time during operation in line structure (connection X1 and X3) therefore double that of a "standard two-port device".

Dimensions

## Dimensions

### Positioner dimensions

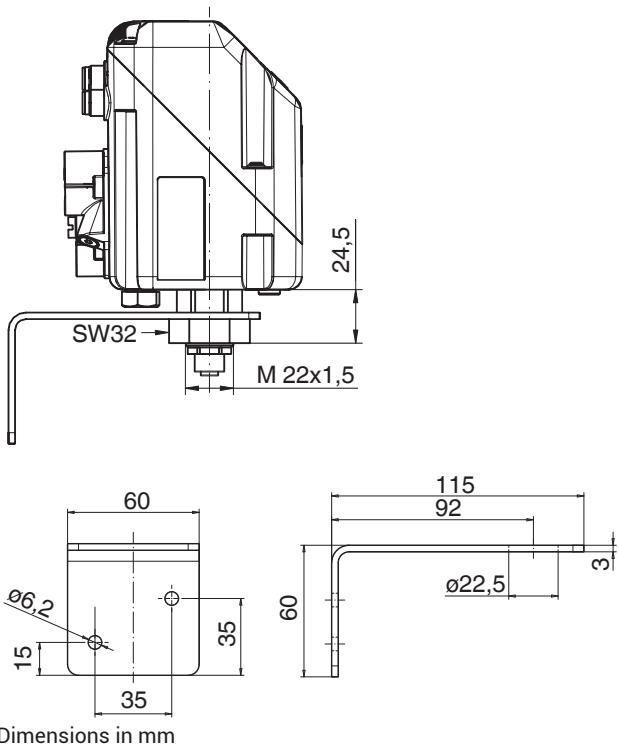


Travel length Code	X
030	10.3
050	32.5
075	57.5

Dimensions in mm

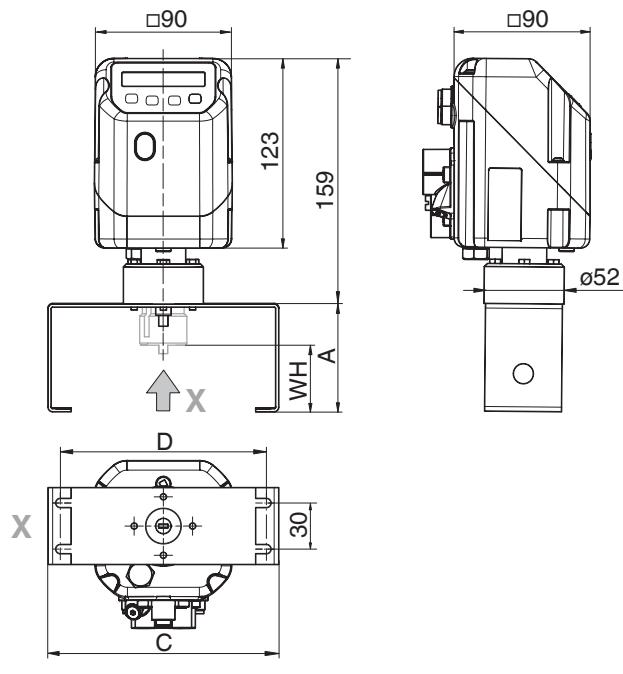
### Remote mounting with mounting bracket

The product with separately available mounting bracket GEMÜ 1446 000 ZMP



Dimensions in mm

## Direct mounting to quarter turn actuators



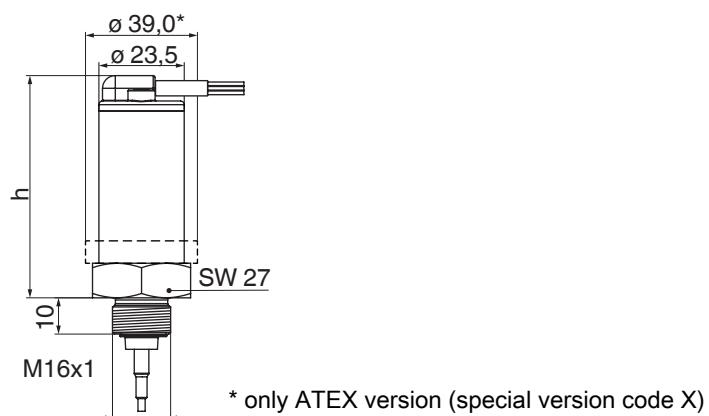
Shaft height WH	Hole spacing D	A	C
20	80	40	100
30	80	50	100
50	130	70	150

Dimensions in mm

## Accessory dimensions

### GEMÜ 4232 travel sensor

#### Housing material aluminium

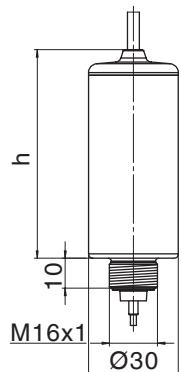


Travel length Code	h
030	62.2
050	84.2
075	109.2

Dimensions in mm

## Accessory dimensions

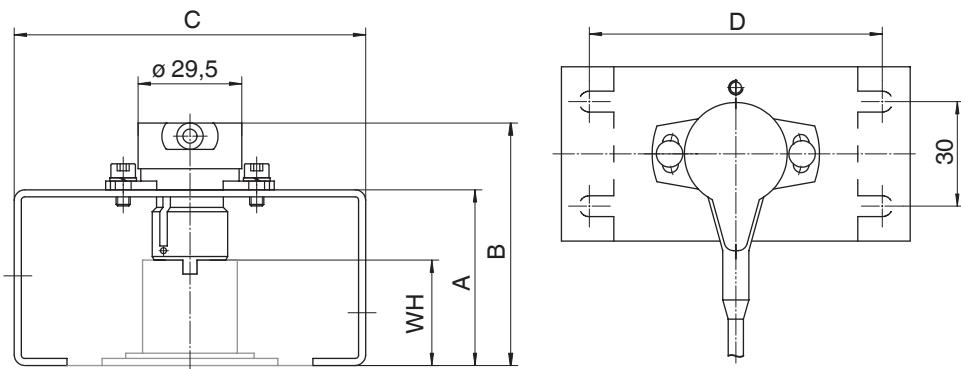
### Housing material PVDF or PP



Travel length Code	h
030	69.6
050	91.6
075	116.6

Dimensions in mm

### GEMÜ 4231 travel sensor with mounting bracket

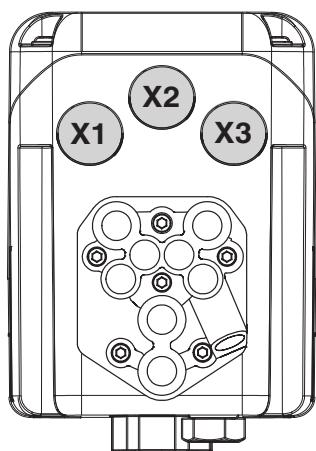


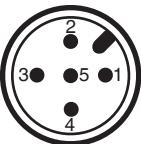
WH Shaft height	D Hole spacing	A	B	C
20	80	40	59	100
30	80	50	69	100
50	130	70	89	150

Dimensions in mm

## Electrical connection

Position of the connectors



**24 V****Note:** Ordering option without fieldbus code 000**Connection X1**

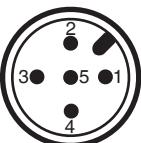
5-pin M12 plug, A-coded

Pin	Signal name
1	U <sub>v</sub> , 24 V DC supply voltage
2	Switching output K1, 24 V DC
3	GND, (supply voltage, DigIn1+2+W +X; K1+2)
4	Switching output K2, 24 V DC
5	Digital input 1 (only for Option code 01)

**Connection X2**

5-pin M12 plug, B-coded

Pin	Signal name	
1	I+, actual value output	4-20 mA internal supply; active
2	I-, actual value output	
3	RxD, Receive Data, TxD-P	
4	TxD, Transmit Data, RS 232	
5	GND, RS 232	

**Connection X3**

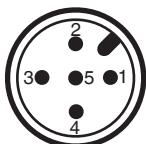
5-pin M12 plug, A-coded

Pin	Signal name	
1	W+, set value input	
2	W-, set value input / Digital In W	
3	X+, process actual value input	working as a process controller
4	X -, process actual value input	
5	Digital input 2 (only for Option code 01)	

## DeviceNet

**Note:** Ordering option Fieldbus code DN

### Connection X1



5-pin M12 plug, A-coded

Pin	Signal name
1	U <sub>v</sub> , 24 V DC supply voltage
2	n. c.
3	GND, (supply voltage)
4	n. c.
5	n. c.

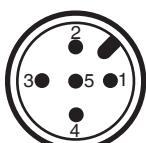
### Connection X2



5-pin M12 plug, B-coded

Pin	Signal name
1	n. c.
2	n. c.
3	n. c.
4	n. c.
5	n. c.

### Connection X3



5-pin M12 plug, A-coded

Pin	Signal name
1	Shield
2	V+
3	V-
4	Can H
5	Can L

## Profibus

**Note:** Ordering option Fieldbus code DP

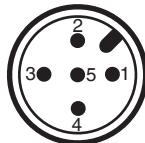
### Connection X1



5-pin M12 plug, B-coded

Pin	Signal name
1	n. c.
2	RxD / TxD-N (PB-)
3	n. c.
4	RxD / TxD-P (PB+)
5	n. c.

### Connection X2



5-pin M12 plug, A-coded

Pin	Signal name
1	U <sub>v</sub> , 24 V DC supply voltage
2	n. c.
3	GND, (supply voltage)
4	n. c.
5	n. c.

### Connection X3



5-pin M12 built-in socket. B-coded

Pin	Signal name
1	BUS-V DC + 5 V DC (PB_5V)
2	RxD / TxD-N (PB-)
3	D GND (PB_GND)
4	RxD / TxD-P (PB+)
5	n. c.

## Profinet

**Note:** Ordering option Fieldbus code PN

Connector housings, connection X1 and X3, are used for shielding and are electrically connected to each other inside the device

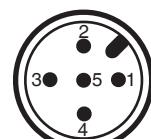
### Connection X1 and X3



4-pin M12 built-in socket, D-coded

Pin	Signal name
1	TD+
2	RD+
3	TD-
4	RD-

### Connection X2



5-pin M12 plug, A-coded

Pin	Signal name
1	Uv, 24 V DC supply voltage
2	n. c.
3	Uv, GND supply voltage
4	n. c.
5	n. c.

### Connection X1 and X3



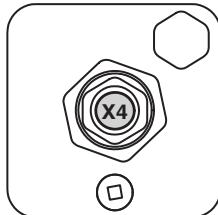
4-pin M12 built-in socket, D-coded

Pin	Signal name
1	TD+
2	RD+
3	TD-
4	RD-

## Version with external actual value potentiometer

**Note:** Ordering option Travel sensor version code S01

Position of the connectors



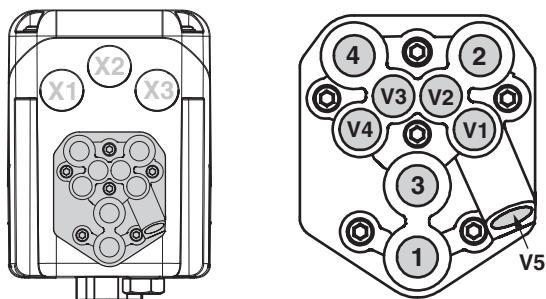
Connection X4



5-pin M12 built-in socket. A-coded

Pin	Signal name
1	UP+, output potentiometer supply voltage (+)
2	UP, input potentiometer wiper voltage
3	UP-, output potentiometer supply voltage (-)
4	n. c.
5	n. c.

## Pneumatic connection



DIN ISO 1219-1	Designation	Size
1	Air supply connection P	G1/8
3	Venting connection R with silencer	G1/8
V1	Supply air throttle for A1 (connector 2)	-
V2	Exhaust air throttle for A1 (connector 2)	-
V3	Exhaust air throttle for A2* (connector 4)	-
V4	Supply air throttle for A2* (connector 4)	-
V5	Check valve	-
2	Working connection A1 for process valve (control function 1 and 2)	G1/8
4	Working connection A2 for process valve (control function 3)*	G1/8

\* only double acting type (code 3)

Fail safe function		
Error	Working connection A1 (2)	Working connection A2 (4)
Power supply failure	Single acting: vented Double acting: vented	Single acting: - Double acting: pressurized
Compressed air supply failure	Single acting: vented Double acting: vented	Single acting: - Double acting: undefined

This fail safe function is not a substitute for specific plant safety requirements.

Adjustable safety reactions		
Error	Working connection A1 (2)	Working connection A2 (4)
Set value < 4,0 mA (range adjustable from 0...22 mA under I Min W)	Single acting: Function adjustable (Open, Close**, Hold, Safe)	Single acting: -
Set value > 20 mA (range adjustable from 0...22 mA under I Min W)	Double acting: Function adjustable (Open, Close**, Hold, Safe)	Double acting: Function adjustable (Open, Close**, Hold, Safe)
Actual value < 4.0 mA (range adjustable from 0...22 mA under I Min X)*		
Actual value > 20.0 mA (range adjustable from 0...22 mA under I Max X)*		

\* only available for Device version code PA01

\*\* Close = default setting

## Mounting options

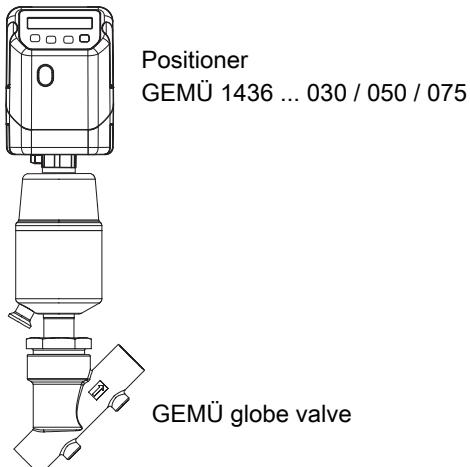
### Mounting the positioner to linear actuators

#### Direct mounting

For direct mounting of the positioner on a valve with linear actuator, you need the following components

- GEMÜ 1436 positioner in travel sensor version code 030, 050 or 075 (dependent on the stroke of the valve used)
- GEMÜ 1436 S01 Z... valve specific mounting kit for mounting the positioner

(At the time of ordering, specify the valve type with nominal size and control function)



#### Remote mounting

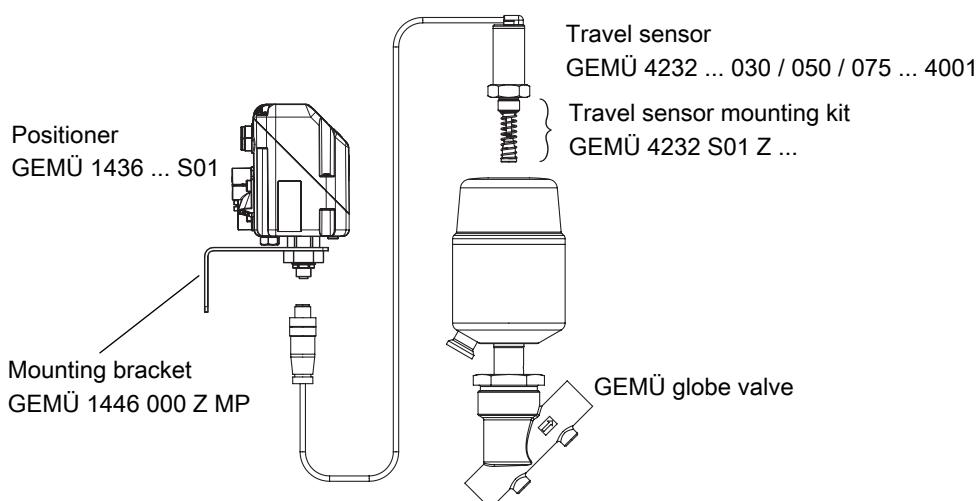
For remote mounting of the positioner on a valve with linear actuator, you need the following components

- GEMÜ 1436 positioner in travel sensor version code S01 (remote potentiometer)
- Travel sensor GEMÜ 4232 ... 030, 050 or 075... 4001

(Travel sensor version dependent on the valve used, cable length dependent on the required distance between the valve and positioner)

- GEMÜ 4232 S01 Z... valve specific mounting kit for mounting the travel sensor
- GEMÜ 1446 000 Z MP mounting bracket (optional) for fixing the positioner

(At the time of ordering, specify the valve type with nominal size and control function and the required distance to the mounting location of the positioner)



By using remote mounting and additional, deviating components, the valve can also be used in potentially explosive areas (provided that this is approved). In this case, the positioner must be installed outside the potentially explosive area and the connection with the travel sensor established via safety barriers.

The electrical connection and the installation must be carried out in accordance with the specifications in the operating instructions.

---

Applicable area (zone) dependent on the type of ignition protection of the valve or travel sensor.

The following deviating, supplementary components are to be used for this type of operation:

- Travel sensor in explosion-proof design GEMÜ 4232 ... 030/050/075 ... 0000 ... X  
Travel sensor version dependent on the valve used, cable length dependent on the distance between the critical (potentially explosive) and safe zone
- Connector between travel sensor and positioner, GEMÜ 1219000Z0300SG00M0M125A, order number: 88208779
- Safety barrier A two-channel, safety barrier P626, order number: 99014203\*
- Safety barrier B one-channel, safety barrier P630, order number: 99014207\*

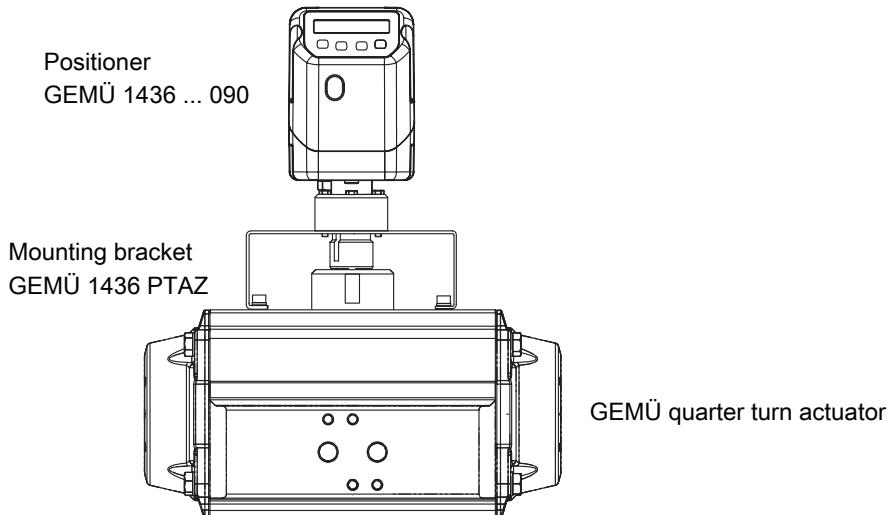
\* Alternative safety barriers with similar characteristics can be used on-site – technical properties available on request

## Mounting the positioner to quarter turn actuators

### Direct mounting

For direct mounting of the positioner on a valve with quarter turn actuator, you need the following components

- Positioner GEMÜ 1436 ... 090
- GEMÜ 1436 PTAZ ... 090 000 valve specific mounting kit for mounting the positioner  
(When ordering, specify valve type with actuator flange size)

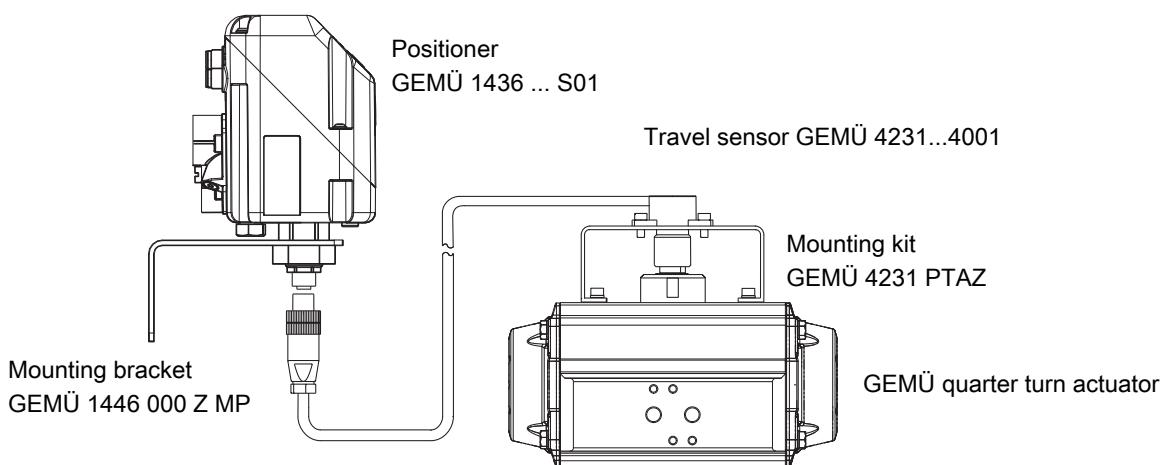


### Remote mounting

For remote mounting of the positioner on a valve with quarter turn actuator, you need the following components

- GEMÜ 1436 positioner in travel sensor version code S01 (remote potentiometer)
- GEMÜ 4231...4001 travel sensor (cable length dependent on the required distance between the valve and positioner)
- 4231PTAZ... ...090 000 valve specific mounting kit for mounting the travel sensor
- GEMÜ 1446 000 Z MP mounting bracket (optional) for fixing the positioner

(At the time of ordering, specify the actuator flange size and the required distance to the mounting location of the positioner)



By using remote mounting and additional, deviating components, the valve can also be used in potentially explosive areas (provided that this is approved). In this case, the positioner must be installed outside the potentially explosive area and the connection with the travel sensor established via safety barriers.

The electrical connection and the installation must be carried out in accordance with the specifications in the operating instructions.

Applicable area (zone) dependent on the type of ignition protection of the valve or travel sensor.

The following deviating, supplementary components are to be used for this type of operation:

- GEMÜ 4231 ... 0000 travel sensor  
cable length dependent on the required distance between critical (potentially explosive) and safe zone
- Connector between travel sensor and positioner, GEMÜ 1219000Z0300SG00M0M125A, order number: 88208779
- Safety barrier A two-channel, safety barrier P626, order number: 99014203 \*
- Safety barrier B one-channel, safety barrier P630, order number: 99014207 \*

\* Alternative safety barriers with similar characteristics can be used on-site – technical properties available on request

## Accessories



### GEMÜ 1436 S02 Z

#### Connection kit

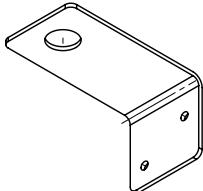
The 1436 S02 Z ... connection kit is used to electrically connect the GEMÜ 1436 cPos positioner to a control unit. The kit comprises pre-assembled cable connections with various connector plugs/sockets and suitable cables with selectable lengths or, alternatively, without a cable but with a threaded connection.

#### Ordering information

Designation	Connection type X1/X3,A-coded	Connection type X2, B-coded	Order number
1436S02Z00M000M0	X1/X3 angle, without cable	X2 angle, without cable	88249257
1436S02Z00M000Y0	X1/X3 angle, without cable	X2 Y cable and M12 socket without cable	88254410
1436S02ZDPM0DPM0 <sup>2)</sup>	X1/X3 Profibus, angle, without cable	X2 Profibus, angle, without cable	88255343
1436S02Z05M00000	X1/X3 Profibus, angle, without cable	X2 Profibus, angle, without cable	88261515
1436S02Z10M00000	X1/X3 angle, 10 m cable	X2 protective cap	88271125
1436S02Z05M005M0	X1/X3 angle, 5 m cable	X2 angle, 5 m cable	88286587
1436S02Z00M00000	X1/X3 angle, without cable	X2 protective cap	88293897
1436S02Z15M00000	X1/X3 angle, 15 m cable	X2 protective cap	88382742
1436S02Z10M000M0	X1/X3 angle, 10 m cable	X2 angle, without cable	88418550

<sup>1)</sup> For simultaneous use - actual value output and RS232 interface (eSy.com)

<sup>2)</sup> For fieldbus version Profibus DP (code DP)



### GEMÜ 1446 000 ZMP

#### Mounting bracket for external wall mounting

Mounting bracket for wall mounting



GEMÜ Gebr. Müller Apparatebau GmbH & Co. KG  
Fritz-Müller-Straße 6-8, 74653 Ingelfingen-Criesbach,  
Germany  
Tel. +49 (0)7940 123-0 · [info@gemue.de](mailto:info@gemue.de)  
[www.gemu-group.com](http://www.gemu-group.com)