



## Intelligent electro-pneumatic positioner GEMÜ 1441 cPos-X

### Areas of application

- Potentially explosive areas
- Pharmaceutical, biotechnology and cosmetics industries
- Foodstuffs and beverages
- Chemical processes
- Power generation and environmental systems
- Mechanical engineering and processing industries

### Features

- Two-wire connection technology
- Quick commissioning using well-balanced preconfiguration
- "Fail-safe" and "Fail-freeze" fail safe function available
- HART communication available upon request
- BLE communication for remote access and configuration
- Almost no air consumption when idle

## Description

The GEMÜ 1441 cPos-X is an intelligent, digital electro-pneumatic positioner featuring two-wire technology used to control pneumatically operated process valves. It can be combined with single-acting or double-acting linear actuators or quarter turn actuators. This means that it can be used in applications including diaphragm, globe and diaphragm globe valves as well as ball valves and butterfly valves. The positioner has a robust housing with a covered LCD display for status information. The positioner can be operated via remote access, using a mobile device to configure settings and to view detailed information.

## Technical specifications

- **Ambient temperature:**  
-10 to 60 °C
- **Operating pressure:**  
1.5 to 7 bar
- **Mode of action:**  
double-acting | single-acting
- **Flow rate:**  
115 NI/min
- **Linear measuring range:**  
2 to 75 mm
- **Radial measuring range:**  
0 to 90°
- **Supply voltage:**  
Via set value signal
- **Electrical connection types:**  
M16 cable gland | M12 plug
- **Communication modes:**  
BLE | HART
- **Conformity:**  
ATEX | IECEx | UL Listed

## Device operation via app

- Initialization, configuration and parameterization
- Detailed display of process values and status
- Error analysis
- Operating mode settings



## Download the GEMÜ app now!

The GEMÜ app is available in German, English and French, and can be used both on Android and on iOS operating systems.



## Designs



Standard version with 75 mm linear travel sensor



Version with connection for external travel sensor



Version for quarter turn valves



	GEMÜ 1434 μPos	GEMÜ 1436 eco cPos	GEMÜ 1435 ePos	GEMÜ 1436 cPos	GEMÜ 1441 cPos-X
					
Controller type	Positioner	Positioner	Positioner	Positioner and process controller	Positioner
Mounting	Linear actuators	Linear actuators	Linear actuators	Linear actuators	Linear actuators
		Quarter-turn actuators	Quarter-turn actuators	Quarter-turn actuators	Quarter-turn actuators
Mode of action	Single-acting	Single-acting	Single- and double-acting	Single- and double-acting	Single- and double-acting
Supply voltage	24 V DC	24 V DC	24 V DC	24 V DC	Via set value signal
Flow rate	15 NI/min	84, 100 NI/min	50, 90 NI/min	84, 100, 172 NI/min	115 NI/min
Measuring range	30 mm	30/50/75 mm or 90°	30/50/75 mm or 90°	30/50/75 mm or 90°	30/50/75 mm or 90°
Communication modes	-	-	-	DeviceNet, Profibus, ProfiNet	HART, BLE
Operation	-	-	On-site control	On-site control	App
Alarm/error outputs	-	-	●	●	●
Set value signal					
0-10 V	●	-	●	-	-
0-20 mA	●	-	●	●	-
4-20 mA	●	●	●	●	●
Digital inputs	-	-	-	●	●
Digital outputs	-	-	●	●	●
Electrical connection types					
M12 plug	●	●	●	●	●
Cable gland	-	-	●	-	●
Position setting (min./max.)	-	-	●	●	●

## All from a single source

Would you like to use the GEMÜ 1441 cPos-X positioner for process automation and monitoring in control circuits?



With GEMÜ, you get a pre-assembled solution. The entire system consisting of positioner and process valve is already preset and tested. This means that you also save on the time and effort required for logistics and installation of the system on-site, as well as for documentation.

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