



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

- 2-wire-connection technology
- Fast commissioning using well-balanced preconfiguration
- "Fail-Safe" and "Fail-Freeze" safety function available
- HART communication option available
- BLE communication for remote access and configuration
- Almost no air consumption when idle

GEMÜ 1441 cPos-X

Electro-pneumatic positioner

The GEMÜ 1441 cPos-X is an intelligent, digital electro-pneumatic positioner in 2-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 it can be used for diaphragm, globe and diaphragm globe valves as well as for ball valves and butterfly valves, for instance. The positioner has a robust housing with a covered LCD display for status information. The positioner can be operated remotely, 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:
Single acting | Double acting
- Flow rate:
115 l/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 | NEC 500 | UL Listed

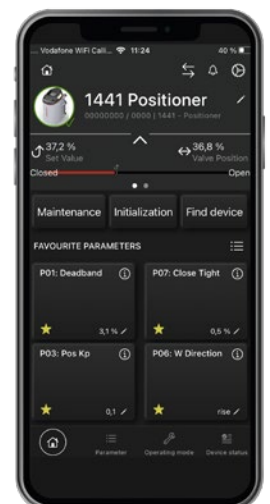
* expected to be available from end-2022

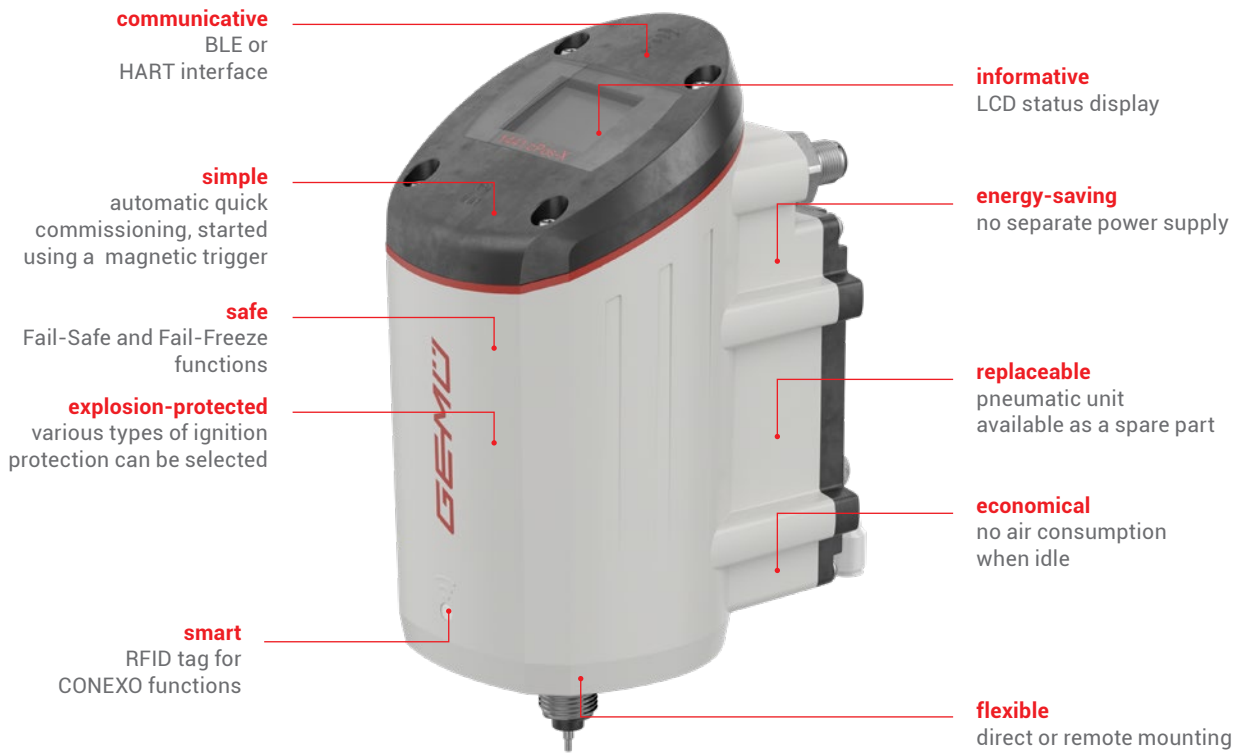
Device operation via app

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



GEMÜ App now available





Designs








Standard version
with 75 mm linear travel sensor,
optionally with M12 plug or cable
glands



**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	-
Flow rate	15 l/min	150, 200 l/min	50, 90 l/min	150, 200, 300 l/min	115 NI/min
Measuring range	10/30 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 operation	On-site operation	App
Alarm/error outputs	-	-	●	●	●
Digital input	-	-	-	●	●
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 loops?



With GEMÜ, you receive a pre-assembled solution. The entire system consisting of positioner und 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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