



# CODAN

## Reservoir XL

Safety and flexibility during  
invasive blood pressure monitoring

**The decisive connection**



### Closed blood sampling systems from CODAN

Closed blood sampling systems from CODAN pvb Critical Care were developed specially for taking arterial blood samples during invasive blood pressure monitoring.

Comprising a reservoir system and sampling ports with disinfectable membranes, the sampling system offers clear advantages compared to traditional sampling components<sup>1</sup>.

#### Optimised workflow

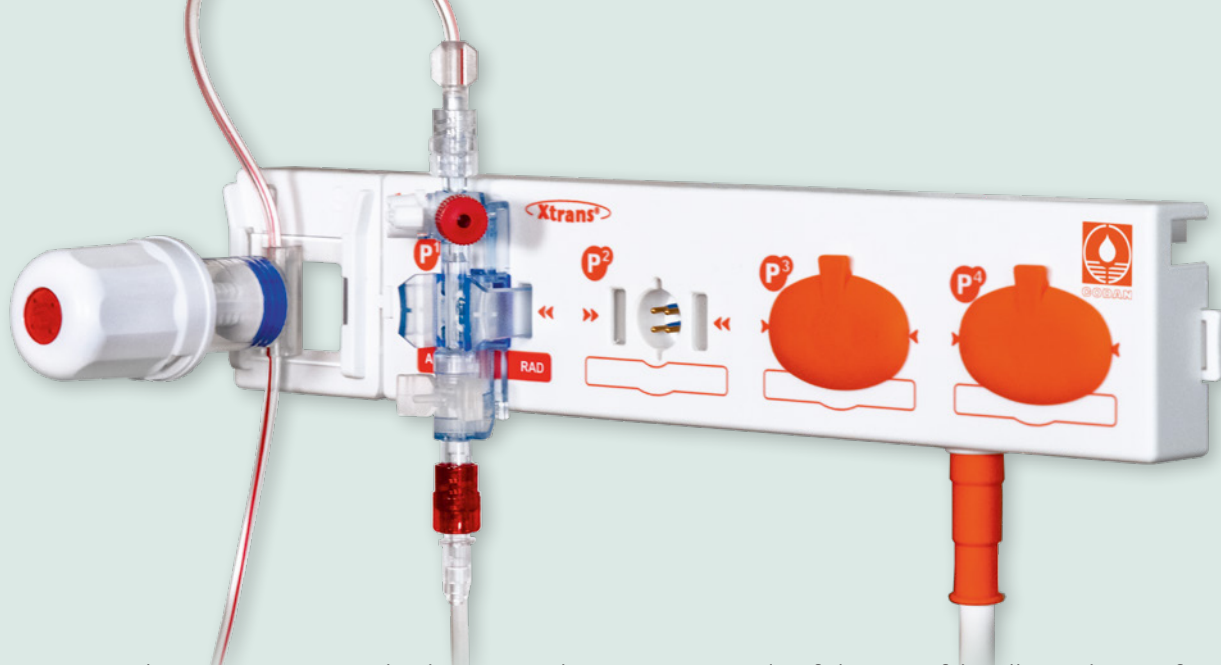
These blood sampling systems enable the user to work safely, reliably and efficiently. Due to the integrated reservoir systems, the mixing volume can be easily withdrawn within the tubing system of a pressure monitoring set in order to subsequently take blood samples for laboratory diagnostics.

Unnecessary application steps and the use of additional withdrawal containers for the removal of the mixing volume are saved here.



#### At a glance

- Reservoir with 6 ml volume and bacteria filter as well as scaling in ml increments
- Blood sampling system optionally with one or two integrated sampling ports
- For point-of-care and/or remote blood sampling
- Colour-coded red for reliable identification of arterial application
- Available in a variety of practical and user-friendly pressure monitoring sets



Connected to a pressure monitoring set and mounted on a mounting plate next to the pressure transducer, the Reservoir XL is an excellent

example of the user-friendly, patient-safe and economical way of blood sampling. Cover caps are available for unused ports.

## Patient Blood Management

For critically ill patients in particular, blood is an extremely valuable resource that needs to be handled responsibly at all times. Closed blood sampling systems are a recognised way of reducing patient blood loss in intensive care and anaesthesia<sup>1-4</sup>.

Due to CODAN's integrated reservoir systems, blood samples can be taken without discarding mixed volumes. This blood-saving concept has been shown to significantly reduce blood loss in intensive care patients<sup>4</sup>, thus protecting not only

the patient's health but also the hospital from unnecessary costs<sup>1,5</sup>.

### Protection from pathogens

The sampling ports of CODAN's closed blood sampling systems are equipped with disinfectable membranes. Such sampling ports offer improved protection against pathogens compared to conventional three-way stopcocks, thereby reducing the incidence of both internal and external system contamination<sup>1,6,7</sup>.

### Sources

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6. Crow S, Conrad SA, Chaney-Rowell C, King JW. Microbial contamination of arterial infusions used for hemodynamic monitoring: A randomized trial of contamination with sampling through conventional stopcocks versus a novel closed system. *Infect Control Hosp Epidemiol*. 1989;10(12):557–561. doi:10.1086/645951.
7. Oto J, Nakataki E, Hata M, Tsunano Y, Okuda N, Imanaka H, Nishimura M. Comparison of bacterial contamination of blood conservation system and stopcock system arterial sampling lines used in critically ill patients. *Am J Infect Control*. 2012;40(6):530–534. doi:10.1016/j.ajic.2011.08.006.

# Blood sampling systems XL

## Extra flexibility

CODAN's blood sampling systems XL enable the use of closed blood sampling systems within different departments of clinical facilities without the need for compromises. Due to the fill volume of 6 ml, blood samples can be taken easily and reliably even in clinical applications where a larger volume shift is required.

CODAN's blood sampling systems XL thus guarantee the fundamental benefits of closed sampling systems, on the one hand, and enable remote sampling, on the other.

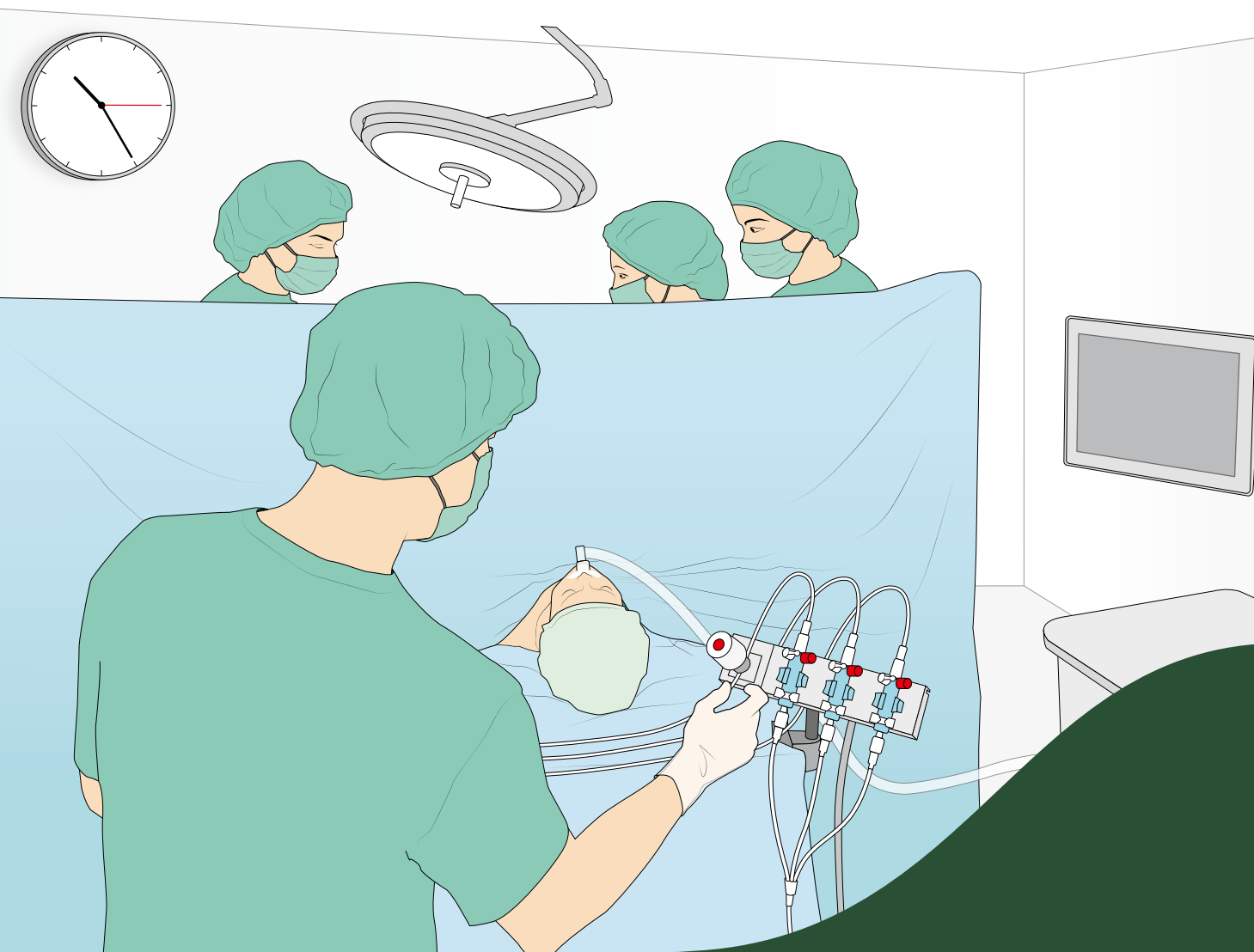
## The decisive combination

Combined with the proven Xtrans® series pressure transducers, the blood sampling

systems XL offer outstanding benefits for clinical health institutions where invasive blood pressure monitoring sets are used.

CODAN's pressure monitoring sets with blood sampling systems XL are available in a variety of versions that are user friendly and ready for application:

- Basic and supplementary configurations for single and multiple pressure monitoring
- Configurations based on different patient populations
- Point-of-care, remote or flexi sampling configurations
- green line® with the use of PVC-free components



## Reservoir XL – proven expertise in ergonomic design



1 Integrated bacteria filter for protection against the ingress of pathogens

2 Smooth surfaces ensure easy cleaning and ergonomic use

3 Blue piston seal and transparent housing for visual monitoring after sampling

4 Inline design for easy priming and flushing as well as simple drawing of mixing volumes

5 Secure attachment to CODAN contact boards for convenient one-handed operation

6 Minimum contact area between piston seal and flow channel

7 Optimal coordination between piston seal and reservoir housing for easy and safe operation

### Can be individually configured

Customised and ready-to-use invasive blood pressure monitoring systems from CODAN are available with different versions of the sampling port. All blood collection systems manufactured by CODAN are equipped with a disinfectable sampling port where blood samples can be taken.

# CODAN Worldwide

CODAN is known internationally as a manufacturer and supplier of medical transfer systems. The CODAN Companies have more than 1500 employees around the world.

The name CODAN is synonymous with reliability, quality and precision based on the know-how and experience gained from more than 60 years of research and development. Company-owned production facilities and sales companies around the world are a guarantee for efficient production, a tight-knit sales network and a first-class service for customers in the healthcare sector.

## CODAN Product range

- Infusion sets
- Transfusion sets
- Extension sets & Manifold connectors
- Infusion & Transfusion accessories
- Infusion filters & Filter systems
- Neonatology & Paediatrics products
- Withdrawal, Preparation & Administration systems
- CODAN CYTO®
- Chemoprotect® products
- Urology & Gynaecology products
- Single use syringes
- Invasive Blood Pressure Monitoring
- Infusion Technology Solutions
- Volumetric & Syringe pumps
- Software
- CODAN COMPONENTS

## CODAN Companies

CODAN Medizinische Geräte GmbH · Deutschland  
CODAN pvb Critical Care GmbH · Deutschland  
CODAN pvb Medical GmbH · Deutschland  
CODAN II, S.A. · Portugal  
CODAN US Corporation · USA  
CODAN Inc. · USA  
CODAN NORGE AS · Norge  
CODAN TRIPLUS AB · Sverige  
CODAN Limited · United Kingdom  
CODAN FRANCE Sarl · France  
CODAN Medical AG · Schweiz  
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CODAN Medical GmbH · Österreich  
CODAN Medical ApS · Danmark  
CODAN DEHA ApS · Danmark  
CODAN MEDITECH s.r.o. · Česká republika  
arcomed Pty Ltd · Australia  
arcomed Ltd · New Zealand

Compliance of the established quality management systems with the provisions of EN ISO 13485, the Council Directive 93/42/EEC and/or Regulation (EU) 2017/745 has been certified by the relevant, competent notified bodies:

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**The decisive connection**