



# Monitoring of Cold Chain and Production

DATA COLLECTION ACCORDING TO GXP AND FDA GUIDELINES



# To ensure your quality

By using the right measuring devices, a high and constant product quality can be guaranteed. This often requires checks in the incoming goods department, during processing, on the finished end product as well as during storage and logistics. Xylem Analytics, offers you the necessary measuring devices that are suitable for use in the GxP environment, as well as software solutions for your diverse applications. You can find a selection of applications and devices here:

# Which device is right for you?

	TMX 3x0/4x0	EBI 20 Series
Measurement		
For direct measurement	✓	1
For monitoring		1
Cool Chain Control		
Refrigerator temperature control	✓	1
Warehouse monitoring		1
Logistics		/
Mappings		1
Laboratory		
Clinical Trails	✓	1
Temperature control in refrigerators	✓	1
Incubators	✓	/
Process Control		
Process validation		
Qualification		
Steamsterilization		
H <sub>2</sub> O <sub>2</sub> and EtO Sterilization		
Depyrogenation / heat tunnel		

# For more information in our catalogues.

Visit us at **www.ebro.com** for many more products!



EBI 300 Series	EBI 25 Series	EBI 310 Series	EBI 11 Series	EBI 12 Series	
✓		✓			
✓	✓	✓	✓	✓	
✓	✓	✓			
✓	✓	✓			
✓		✓			
✓	✓	✓	✓	<b>√</b>	
✓	✓	✓	✓	✓	
✓	✓	✓			
✓	✓	✓			
			✓	✓	
		✓	✓	<b>√</b>	
			✓	✓	
				✓	
				✓	



## Data Logger to measure during manufacturing

EBI 11 Series



Mappings, clinical trails, process validation and qualification and steam sterilization

#### The EBI 11 offers:

- Small data logger for applications with little space
- 16.5 mm diameter
- Measuring range of -30 °C to +150 °C
- Logger to measure temperature and / or pressure available
- Calibration certificate included
- Stainless steel (V4A) housing
- Sets with interface, software and accessories for various applications are available.
- Winlog.pro software for evaluation
- Waterproof housing (IP68)
- Prepared IQ / OQ documents are available for Winlog.pro software
- FDA 21 CFR part 11 compliant



#### **Process data logger**

EBI 12 Series



Mappings, clinical trails, process validation and qualification, steam sterilization,  $\rm H_2O_2$  and EtO sterilization and depyrogenation / heat tunnel

#### The EBI 12 offers:

- Logger to measure temperature, pressure, humidity, conductivity and precise vacuum
- Large selection of different types
- Calibration certificate included
- Stainless steel (V4A) housing
- Sets with interface, software and accessories for various applications are available.
- TÜV certified Winlog.validation software for evaluation
- Waterproof housing (IP68)
- Prepared IQ / OQ documents are included in the Winlog.validation software package
- FDA 21 CFR part 11 compliant





### **Digital Refrigerator Thermometer**

TMX 3x0 and 4x0 Min/Max Alarm Thermometer with external probe



For temperature control in refrigerators, laboratory and clinical trails.

#### The TMX 3x0 / 4x0 offers:

- Observe two temperature zones with one device
- Easy usage
- Reliable control
- Acoustic alarm for active alarm management
- Optical alarm to see how long the problem occurs





#### Standard Cold Chain Data Logger

EBI 20 Series Robust Basic Data Logger



For temperature control in refrigerators, warehouse monitoring and logistic control, mappings, laboratory and clinical trails.

#### The EBI 20 offers:

- Data logger versions for temperature and humidity measurements available
- With external or internal temperature probe
- LED shows if a limit has been exceeded
- Measurement range of -30 °C to +100 °C
- User replaceable battery
- 2 point calibration certificate included
- Interface and Desktop software are necessary
- Winlog.basic software free of charge
- Waterproof housing (IP 67) except for humidity logger



# PDF - Cold Chain Data Loggers with USB connector

USB Data Logger EBI 3x0 Series Continuous temperature monitoring sensitive goods



For temperature control in refrigerators, warehouse monitoring and logistic control, mappings, laboratory, clinical trails and for device qualification.

#### The EBI 3x0 offers:

- USB-A connector enables you to read the logger out on every windows based PC worldwide without the need of an interface
- Automatic PDF generation without software
- Configuration via the website <u>www.ebi300.com</u> or the free desktop software Winlog.basic
- LED shows if a limit has been exceeded
- Measurement range of -30 °C to +70 °C
- Several external penetration probes available
- Digital humidity probes available
- User replaceable battery
- 3 point calibration certificate included
- Waterproof housing (IP 65)



## Wireless Cold Chain Monitoring System

EBI 25 Series Automated data collection and processing



For temperature control in refrigerators, warehouse monitoring, climatic chambers and stability spaces, laboratory, incubators, mappings and clinical trails.

#### The EBI 25 offers:

- Data logger versions for temperature and humidity measurements available
- With external or internal temperature probe
- Measurement range of -200 °C to +199.9 °C
- User replaceable battery
- Alert notification by email
- 2 point calibration certificate included
- Interface and webbased software are necessary
- Winlog.web software
- FDA 21 CFR part 11 compliant
- Waterproof housing (IP 67) except for humidity logger



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