

CASCED Controlled English Translation

Source file: 油液监测/KBZ-4-油液清洁度传感器.pdf

Original diagrams and page relationships are retained in the paired source PDF. The following English text is the controlled translation and data transcription.

KBZ-1 Integrated Online Particle Counter

Model: KBZ-1

Product family: Oil Condition Monitoring

Category: Particle Counters

Overview

Integrated online oil-particle counter using the light-blockage principle.

Features

- LCD and membrane keypad
- Six configurable particle-size channels
- Up to 990 particle-size settings

Applications

- Online cleanliness monitoring in hydraulic and lubrication systems

Technical Specifications

Specification	Source value
Dimensions	310×250×125 mm
Net weight	5 kg

Source-Control Status

Review required — source file is named KBZ-4 but contains KBZ-1 through KBZ-5 product descriptions.

KBZ-2 Split Online Particle Counter

Model: KBZ-2

Product family: Oil Condition Monitoring

Category: Particle Counters

Overview

Split-configuration online oil-particle counter with touchscreen operation.

Features

- 5.6-inch color LCD
- Eight configurable particle-size channels
- Up to 990 particle-size settings

Applications

- Online cleanliness monitoring in hydraulic and lubrication systems

Technical Specifications

Specification	Source value
KBZ-2M dimensions/weight	310×250×125 mm / 5 kg
KBZ-2R dimensions/weight	265×180×100 mm / 3 kg

Source-Control Status

Review required — OCR-derived data; display size is recognized as 5.6 in.

KBZ-3 Online Particle Counter

Model: KBZ-3

Product family: Oil Condition Monitoring

Category: Particle Counters

Overview

Compact online oil-particle counter with color touchscreen.

Features

- Eight configurable particle-size channels
- Optional pressure reducer

Applications

- Online cleanliness monitoring in hydraulic and lubrication systems

Technical Specifications

Specification	Source value
Flow range	12–60 mL/min
Online pressure	0.2 MPa; up to 40 MPa with optional pressure reducer
Dimensions	202×157×86 mm
Net weight	2 kg

Source-Control Status

Ready

KBZ-4 Compact Online Particle Counter

Model: KBZ-4

Product family: Oil Condition Monitoring

Category: Particle Counters



Overview

Compact OLED online particle counter with eight fixed channels and USB result storage.

Features

- OLED display and membrane keypad
- Eight fixed channels
- USB storage
- Optional water-activity sensor

Applications

- Online cleanliness monitoring in hydraulic and lubrication systems

Technical Specifications

Specification	Source value
Fixed channels	1, 2, 5, 10, 15, 25, 50, 100 µm; alternative ISO(c) set is printed but partially unreadable
Flow ranges	10–50 mL/min; 50–300 mL/min
Online pressure	0.2 MPa; up to 40 MPa with optional pressure reducer
Dimensions	100×75×70 mm
Net weight	1 kg
Interfaces	RS-232 or RS-485 or 4–20 mA, as printed

Source-Control Status

Review required — alternative ISO(c) channel values are partly unreadable.

KBZ-5 Integrated Online Particle Counter

Model: KBZ-5

Product family: Oil Condition Monitoring

Category: Particle Counters

Overview

Integrated online oil-particle counter with color touchscreen and optional USB/water-activity functions.

Features

- 4.3-inch color touchscreen
- Eight configurable channels
- Up to 990 particle-size settings

Applications

- Online cleanliness monitoring in hydraulic and lubrication systems

Technical Specifications

Specification	Source value
Dimensions	310×250×125 mm
Net weight	5 kg
Optional functions	USB storage; water-activity sensor

Source-Control Status

Ready