



## **EZ2400 Total Chromium + Chromium Cr(III), Cr(VI) Analyser**

**Produktnr:**

**EZ2400.XXXXXXXXXX**

**SEK Pris:**

**Kontakta oss**

### **Online colorimetric analysis of Total Chromium + Dissolved Chromium Cr(III) + Chromium Cr(VI) in water**

EZ2000 Total Chromium Analysers achieve excellent precision and accuracy. At the heart of the colorimeter there is a compact photometer assembly developed especially for the EZ Series. Consumption of reagents is reduced by low volume analysis, yet high sensitivity is assured by a long optical path length. The limit of detection is in the low µg/L range.

EZ2000 Total Chromium Analysers have an internal digestion unit. This additional step prior to analysis allows to measure non-soluble or complexed metal species.

#### **Results you can rely on**

Smart automatic features for calibration, validation, priming and cleaning are embedded in the controller software and contribute to analytical performance, maximised uptime and negligible operator intervention. Precision micropumps dose all reagents. Sample lines and analysis vessel are cleaned with demineralised water to eliminate cross contamination between samples. Electronic and wet-chemical part of the analyser are strictly separated. A transparent door allows for instant visual inspection of the wet part.

#### **Flexibility that meets your needs**

EZ Series Total Chromium Analysers come in an attractive, ergonomic mainframe with a compact footprint. All hardware is controlled by the integrated industrial panel PC. The modular build allows for the analyser to match your application and operational needs.

- The standard measuring range can be narrowed by a different calibration range or extended via internal dilution options.
- Analogue and digital output options
- Multiple stream analysis for up to 8 sample streams

There are many additional options available. Please contact Hach for more details.

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### **Specifikationer**

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Analoga utgångar:     | Active 4 - 20 mA max. 500 Ohm load, standard 1, max. 8 (option) |
| Antal provströmmar:   | 1, 2, 4 or 8                                                    |
| Automatisk rengöring: | Ja                                                              |
| Certifieringar :      | CE compliant / UL certified                                     |
| Cykeltid:             | 20 minutes Total Cr (dilution + 5 min.)                         |

|                        |                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | 30 minutes Total Cr & Cr(VI)                                                                                                                                                                          |
| Demineralised water:   | For rinsing / dilution                                                                                                                                                                                |
| Detektionsgräns:       | Total Chromium, Cr(VI): $\leq 2 \mu\text{g/L}$                                                                                                                                                        |
|                        | Cr(III): $\leq 5 \mu\text{g/L}$                                                                                                                                                                       |
| Digital outputs:       | Optional: Modbus (TCP/IP, RS485)                                                                                                                                                                      |
| Dimension (H x B x D): | 690 mm x 465 mm x 330 mm                                                                                                                                                                              |
| Dränering:             | Atmospheric pressure, vented, min. Ø 32 mm                                                                                                                                                            |
| Earth connection:      | Dry and clean earth pole with low impedance ( $< 1 \text{ Ohm}$ ) using an earth cable of $> 2.5 \text{ mm}^2$                                                                                        |
| Garanti :              | 24 månader                                                                                                                                                                                            |
| Instrument air:        | Dry and oil free according to ISA-S7.0.01-1996 quality standard for instrument air                                                                                                                    |
| Kalibrering:           | Automatic, 2-point; frequency freely programmable                                                                                                                                                     |
| Larm:                  | 1 x malfunctioning, 4 x user-configurable, max. 24 VDC/0.5 A, potential free contacts                                                                                                                 |
| Material:              | Hinged part: Thermoform ABS, door: PMMA                                                                                                                                                               |
|                        | Wall section: Galvanised steel, powder coated                                                                                                                                                         |
| Mätmetod:              | Colorimetric measurement at 546 nm using diphenylcarbazide method, conform with standard method APHA 3500-Cr (B)                                                                                      |
| Matningsspänning:      | 230 VAC, 50/60 Hz                                                                                                                                                                                     |
|                        | 120 VAC, 50/60 Hz                                                                                                                                                                                     |
|                        | Max. power consumption: 440 VA                                                                                                                                                                        |
| Mätområde:             | Total Cr, Cr(VI): 10 - 500 $\mu\text{g/L}$                                                                                                                                                            |
|                        | Cr(III): 20 - 500 $\mu\text{g/L}$                                                                                                                                                                     |
|                        | Optional:                                                                                                                                                                                             |
|                        | 2 - 50 $\mu\text{g/L}$   Cr(III): 5 - 50 $\mu\text{g/L}$                                                                                                                                              |
|                        | 4 - 125 $\mu\text{g/L}$   Cr(III): 10 - 125 $\mu\text{g/L}$                                                                                                                                           |
|                        | 5 - 250 $\mu\text{g/L}$   Cr(III): 10 - 250 $\mu\text{g/L}$                                                                                                                                           |
|                        | 0.16 - 2 mg/L   Cr(III): 0.32 - 2 mg/L (with internal dilution)                                                                                                                                       |
|                        | 0.32 - 5 mg/L   Cr(III): 0.64 - 5 mg/L (with internal dilution)                                                                                                                                       |
| Modell:                | EZ2400                                                                                                                                                                                                |
| Omgivningstemperatur:  | 10 - 30 °C $\pm 4$ °C deviation at 5 - 95% relative humidity (non-condensing)                                                                                                                         |
| Parameter:             | Chromium, total; Cr(VI), dissolved; Cr(III), dissolved                                                                                                                                                |
| Precision:             | Better than 2% full scale range for standard test solutions                                                                                                                                           |
| Prov: tryck:           | By external overflow vessel                                                                                                                                                                           |
| Provflödes hastighet:  | 100 - 300 mL/min                                                                                                                                                                                      |
| Provkvalitet:          | Maximum particle size 100 $\mu\text{m}$ , $< 0.1 \text{ g/L}$ ; Turbidity $< 50 \text{ NTU}$                                                                                                          |
| Provtemperatur:        | 10 - 30 °C                                                                                                                                                                                            |
| Reagent Requirements:  | Keep between 10 - 30 °C                                                                                                                                                                               |
| Skyddsklass:           | Analyser cabinet: IP44 / Panel PC: IP65                                                                                                                                                               |
| Störningar:            | Iron (III), mercury $> 200 \text{ mg/L}$ , molybdenum $> 200 \text{ mg/L}$ , vanadium $> 5 \text{ mg/L}$ . Large amounts of colour and turbidity interfere. Fats, oil, proteins, surfactants and tar. |

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| Vad ingår i leveransen: | EZ2400 Chromium Analyser, Instruction Manual, 1 x Double Bit Door Key, 1 x Mounting Brackets, 3 x empty 2.5L Reagent Containers with Fittings (for Acid, Buffer, Persulfate) and 1 x Assembly Glass Reagent Container 2.5L (for Colour Solution) |
| Validation:             | Automatic; frequency freely programmable                                                                                                                                                                                                         |
| Vikt :                  | 25 kg                                                                                                                                                                                                                                            |

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### Vad finns i förpackningen

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