ISO 14001 Certified

SPECIFICATION SHEET

TOA DKK

Reagentless Free Chlorine Analyzer
Detector

CD-36D
CLR-21-A

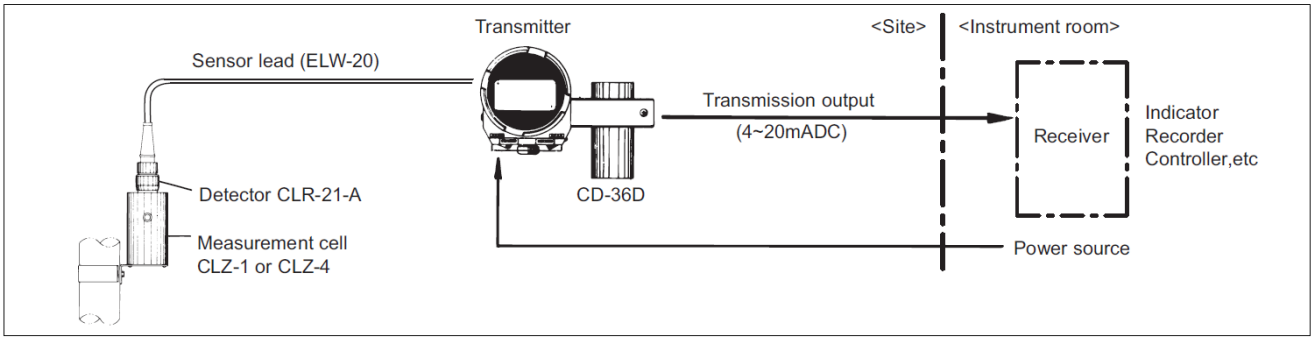
The model CD-36D is for controlling and monitoring the free chlorine in a faucet feed line or water in a swimming pool. The instrument features compact and light weight system, sample-saving and easy maintenance. Measured value is transmitted via 4~20mADC output.

Standard Specifications

Product name : Reagentless Free Chlorine Analyzer
Model : CD-36D
Combined detector : CLR-21-A (with no lead)
Electrode lead wire : ELW-20, standard length 1.5 m
Measurement cell : CLZ-1 (standard) or CLZ-4 (with valve)
Measurement object : Free chlorine, such as drinking water or swimming pool water
Measurement method : Polarograph
Electrode cleaning method : Cleaning of beads using the rotation of the swing rotary
Measurement range : Either of the following (switchable by internal switch)
(1) 0~1 mg/L (2) 0~2 mg/L (3) 0~3 mg/L
Linearity : within ±0.1mg/L (with chlorine standard solution at 0~2 mg/L range)
Repeatability : within ±0.1mg/L (with chlorine standard solution at 0~2 mg/L range)
Indication : Liquid crystal digital reading
Indication range : 0.00~about 4.90 mg/L; minimum reading of 0.01 mg/L
Temperature compensation range : 0~40˚C
Calibration method : Set to the analytical value of, for instance, the DPD method
Sample water conditions : pH; 5.5~8.6 pH(variation within 1pH)
Electrical conductivity; 8mS/m or more (CLZ-2 should be used if electrical conductivity is low)
Temperature; 0~40˚C (no freezing)
Pressure; 0.01~0.15MPa
Measurement cell flow rate; 50~200 mL/min.
Ambient temperature and humidity : 0~50˚C and 85%(RH) or lower

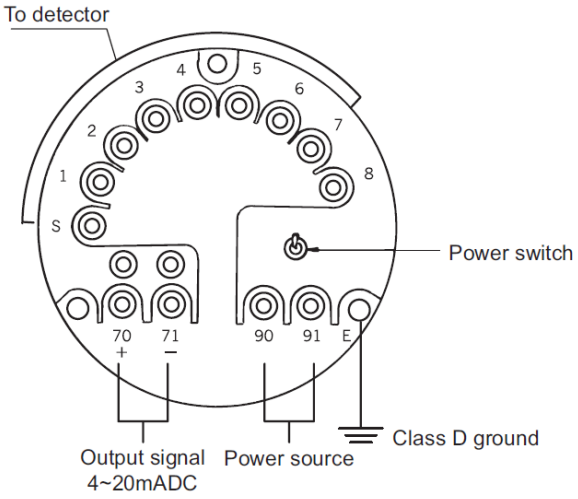
Output : 4~20mADC (load resistance; 600Ω or under) ground insulation type
Power source : Either of the following (designation necessary)
(1) 100VAC 50/60Hz (2) 110VAC 50/60Hz
(3) 115VAC 50/60Hz (4) 120VAC 50/60Hz
(5) 200VAC 50/60Hz (6) 220VAC 50/60Hz
(7) 240VAC 50/60Hz
Power consumption : Approximately 10 VA
Cable entry : G 3/4 (PF 3/4) 3 locations
Providing one is used for electrode lead wire
Pipe connection : CLZ-1; Sample water inlet…Rc 1/4 (PT 1/4)
Drain outlet; Rc 1/4 (PT 1/4)
CLZ-4; Sample water inlet…Rc 1/2 (PT 1/2)
Drain outlet; Rc 1/2 (PT 1/2)
Structure : Indoor unit
Construction :Transmitter; IP55
Detector; IP52
In order to use the product outdoors, the detector must be rain proofed.
Mounting : 50 A (external diameter; 60.5 mm), with pipe installation
Materials/Surface finish : Transmitter; AC4C (cast aluminum), metallic silver and blue coating
Detector; A1050P (aluminum pipe), Equivalent to Munsell 5PB8/1 (Wetted part:PVC, SUS304)
Flow cell; Acrylic resin (CLZ-1), Acrylic resin, PVC (CLZ-4)

System configuration



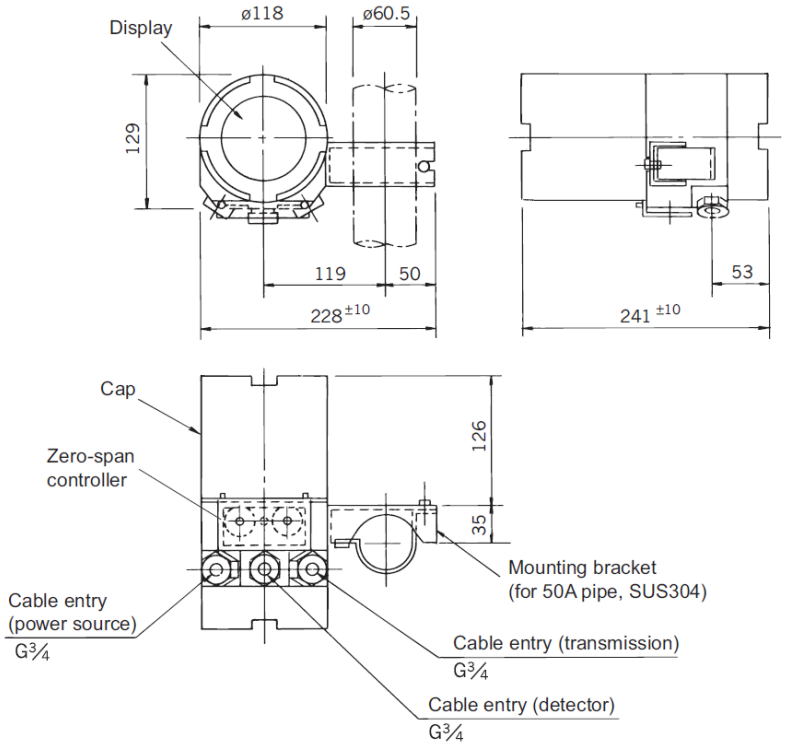
Weight : Transmitter; Approx. 3.5 kg
Detector; Approx. 2 kg
Flow cell; Approx. 1.5 kg (CLZ-1),
approx. 2.5 kg (CLZ-4)

Terminal Connection Diagram



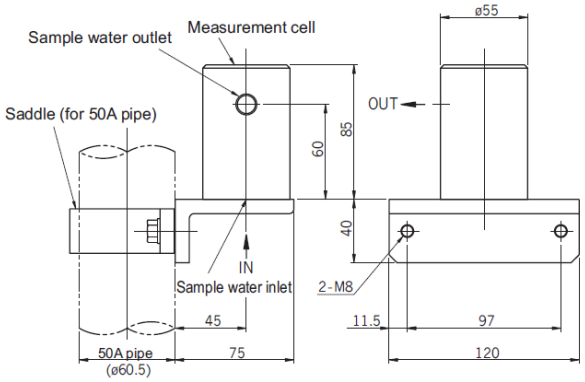
Dimensions

Unit : mm

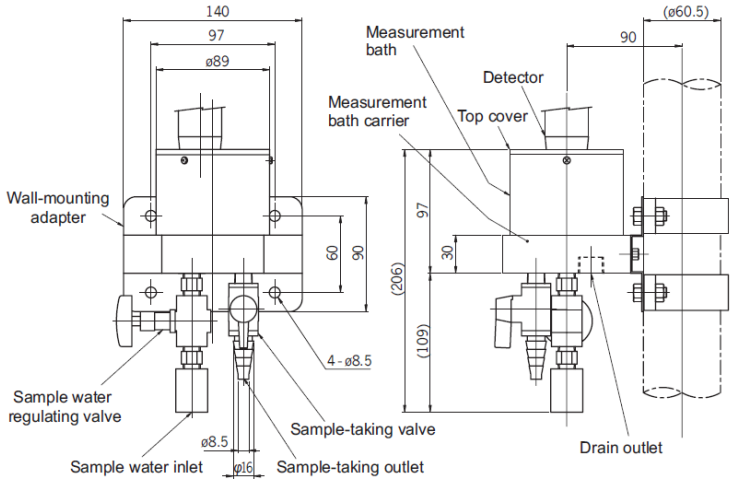


● Measurement cell

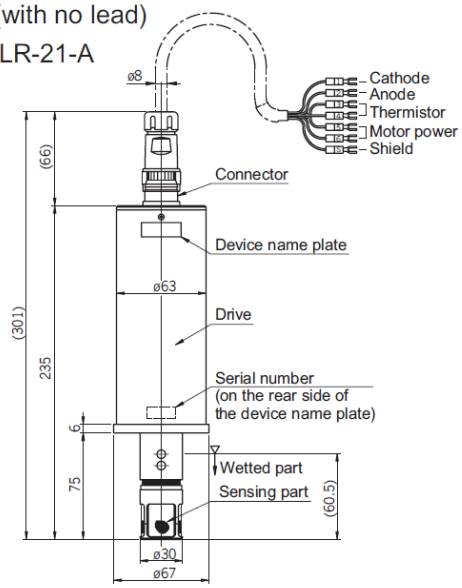
Model : CLZ-1



Model : CLZ-4

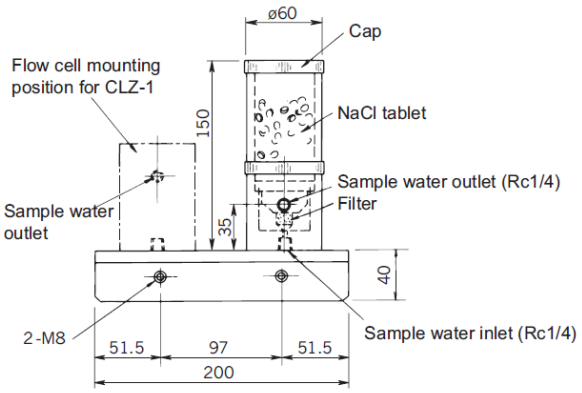


● Detector (with no lead)
Model : CLR-21-A



Optional

● Column for pure water measurement
Model : CLZ-2
This is an adaptor that adds NaCl to increase the electrical conductivity of the sample water (less than 80μs/cm) and enable stable measurement of free chlorine in sample water.

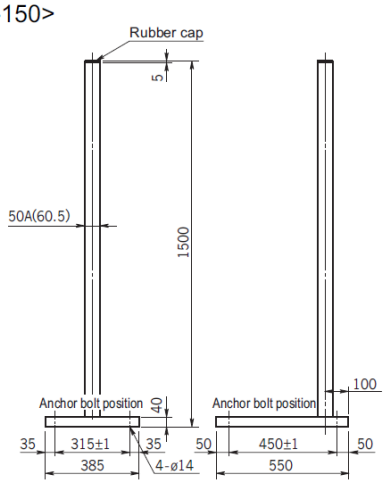


● Pole stand

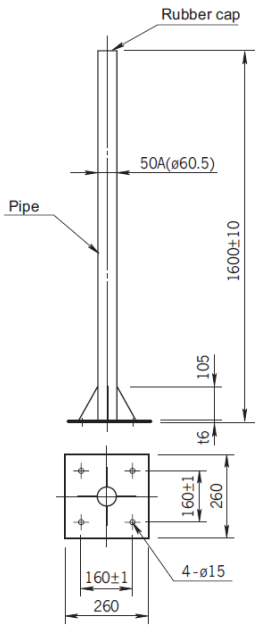
Model : B-150 or ZB-1

This is the frame for mount the transmitter (CD-36D) and the detector (electrode and measurement cell).

<B-150>

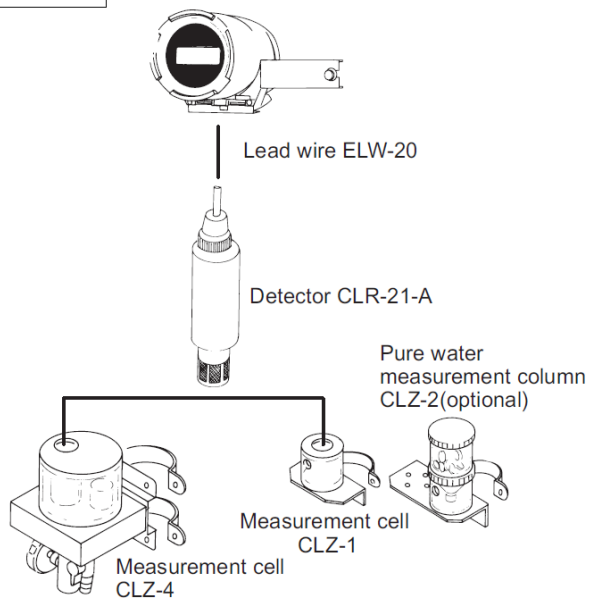


<ZB-1>

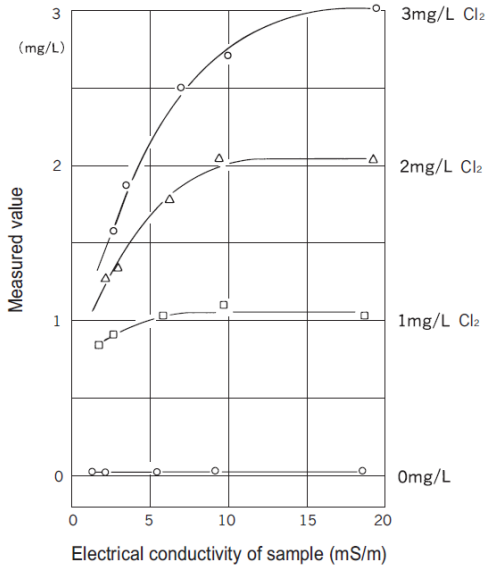


System

Transmitter CD-36D



Electric conductivity characteristics of Cl_2 sensor



● Since tap water generally has an electrical conductivity of about 20 mS/m and that value rarely fluctuates, no serious influence will occur. But when the level goes below 10 mS/m, the device will show a reading smaller than it actually is, and therefore there occurs a substantial problem when measurement is for 2 mg/L or more.

TOA DKK

DKK-TOA CORPORATION

⚠ CAUTION Do not operate producuts before consulting instruction manual.

International Operations:
DKK-TOA Corporation
29-10, 1-Chome, Takadanobaba, Shinjuku-ku,
Tokyo 169-8648 Japan
Tel : +81-3-3202-0225 Fax : +81-3-3202-5685