

CIT-8800 Inductive conductivity/ Concentration Online Analyzer

Code: 501018



Color screen
display with
high solution;



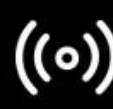
Set concentration
curve itself;



Cycle timing,
appointment
timing control



Three channels
photoelectr
ic switch output



Double channels
4-20mA output;

CIT-8920 Inductive conductivity/ Concentration Online Transmitter

Code: 510011



Set concentration
curve itself;



RS485 and isolated
4-20mA output;



Local display, save space,
with high and low alarm
setting function;

Inductive conductivity / Concentration sensor

Features: : no plate measurement mode

Applications: for high temperature, corrosive and high viscosity media environment where you need to test high conductivity, concentration, salinity.....

No bare metal (contact) electrode, no polarization

Anti - pollution, anti - adhesion, high temperature resistance, corrosion resistance, suitable for high viscosity liquid

The sensor is easily cleaned and maintained due to the big flow aperture ;

Different contact material can be selected due to the medium

Different installation method and accessories can be selected;

Measurement range:

500 μ S/cm ~ 2000mS/cm for conductivity ;

NaOH, (0-15) % or (25-50) %;

HNO₃ (0-25) % or (36-82) %;

User defined concentration curve





CIS-1112-01
Code: 34035

ABS+ABS



CIS-1113-01
Code: 340351
For CIT-8920

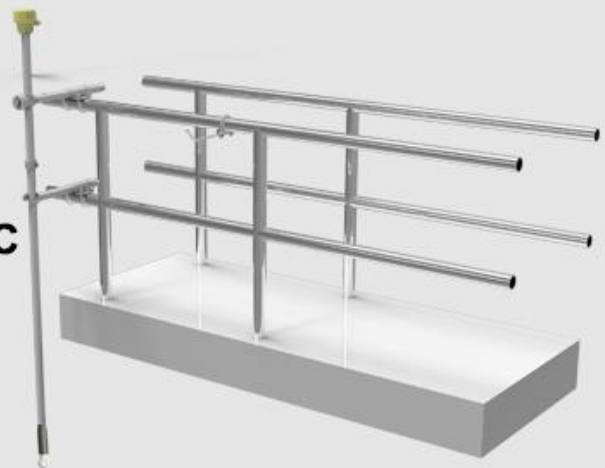


Pipeline mounted





PEEK+UPVC



CIS-3021-00
Code: 350047

CIS-3021-07
Code: 3500477
Environment protection bracket



PEEK+PP



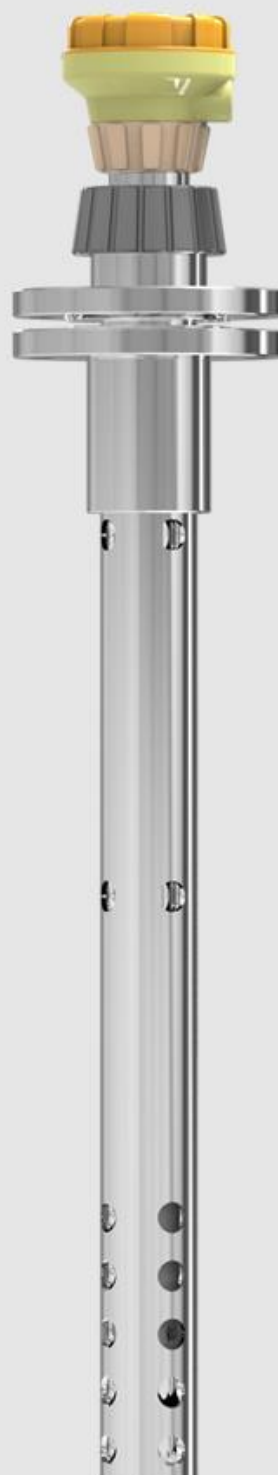
CIS-3031-00
Code: 3500470

CIS-3031-04
Code: 35004704
Flange connection

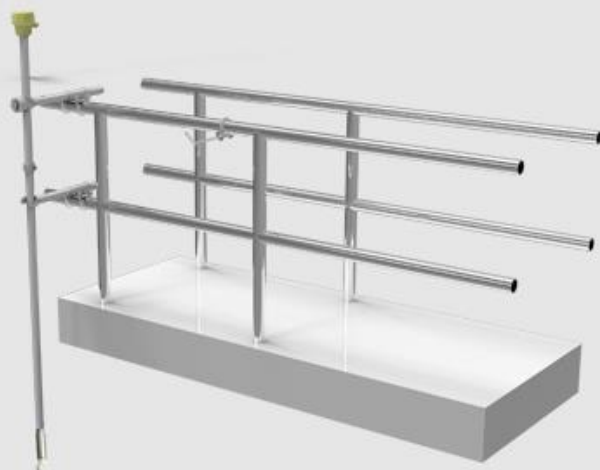


PEEK+PP

CIS-3031-05
Code: 35004705
Bulkhead connection



CIS-3031-06
Code: 35004706
Tank installation



CIS-3031-07
Code: 35004707
Environment protection bracket



CIS-3041-00
Code: 350048

PEEK+316L



CIS-3041-03
Code: 3500483
Sanitary clamp



CIS-3041-04
Code: 3500484
Flange connection

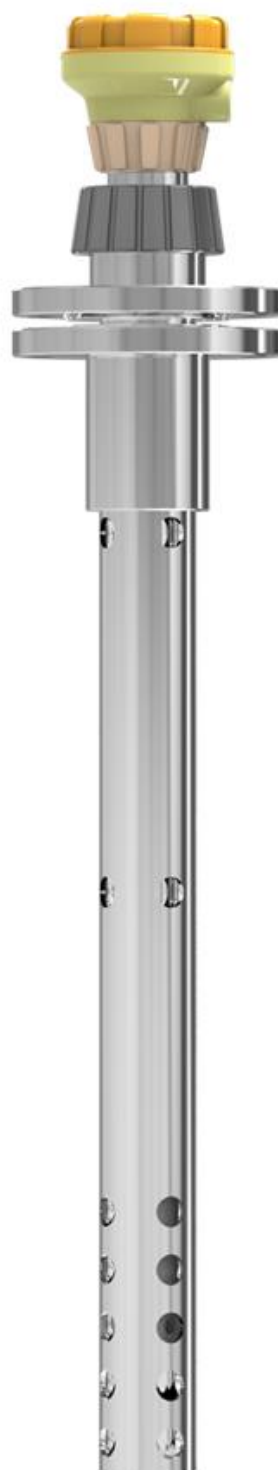
PEEK+316L



CIS-3041-05
Code: 3500485
Bulkhead connection



CIS-3061-00
Code: 3500472
PEEK+PEEK



CIS-3041-06
Code: 3500486
PEEK+316L
Tank installation



CIS-3024 -02
Code: 1120314056
PEEK+UPVC
Pipeline mounted



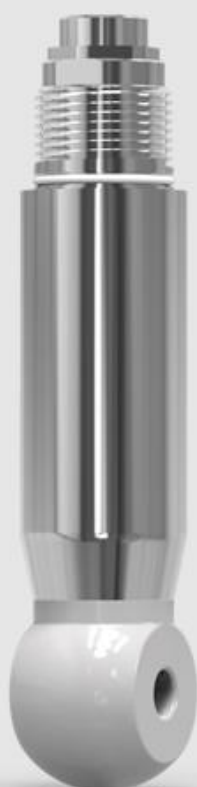
CIS-3025-02
Code: 1120314054
PEEK+UPVC, For CIT-8920
Pipeline mounted



Pipeline mounted



CIS-3044-02
Code: 1120314057
PEEK+316L, For CIT-8920
Pipeline mounted



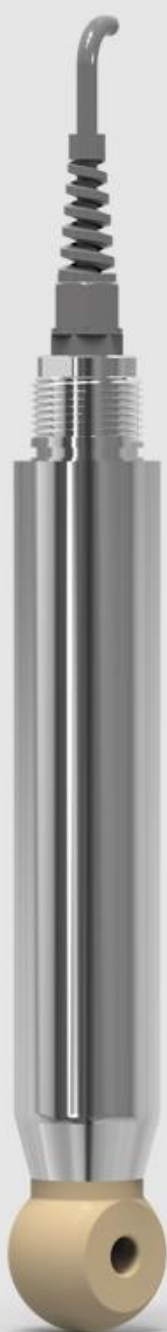
CIS-3045-02
Code: 1120314055
PEEK+316L, For CIT-8920



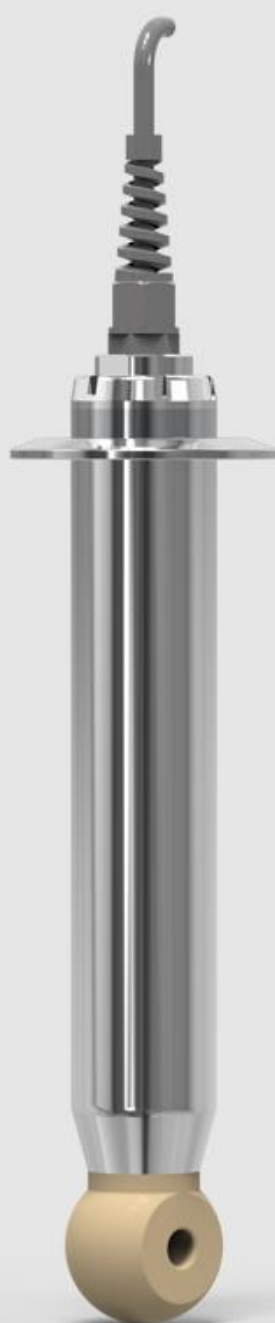
CIS-4051-00
Code: 370247
PVDF+PTFE



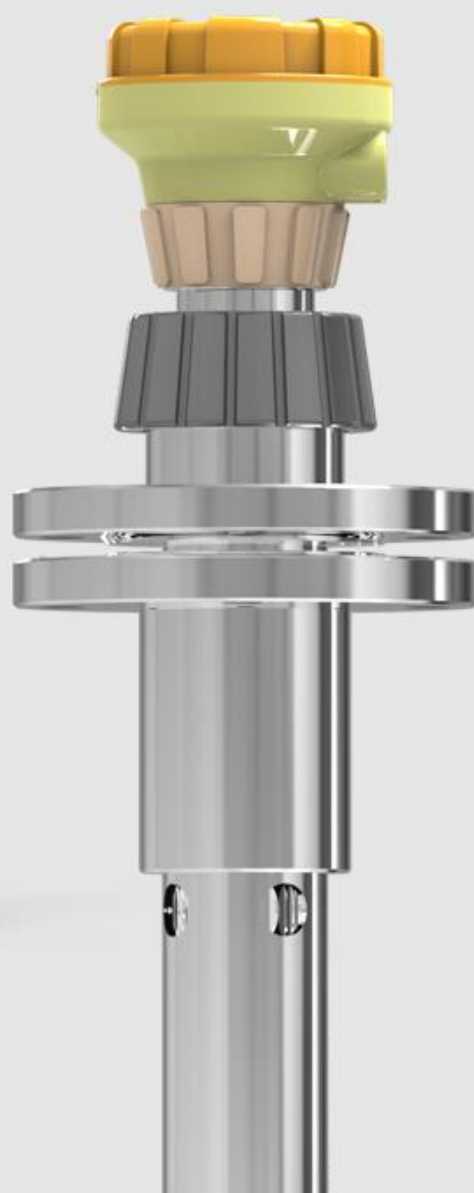
CIS-5051-00
Code: 3702470
PFA+PTFE

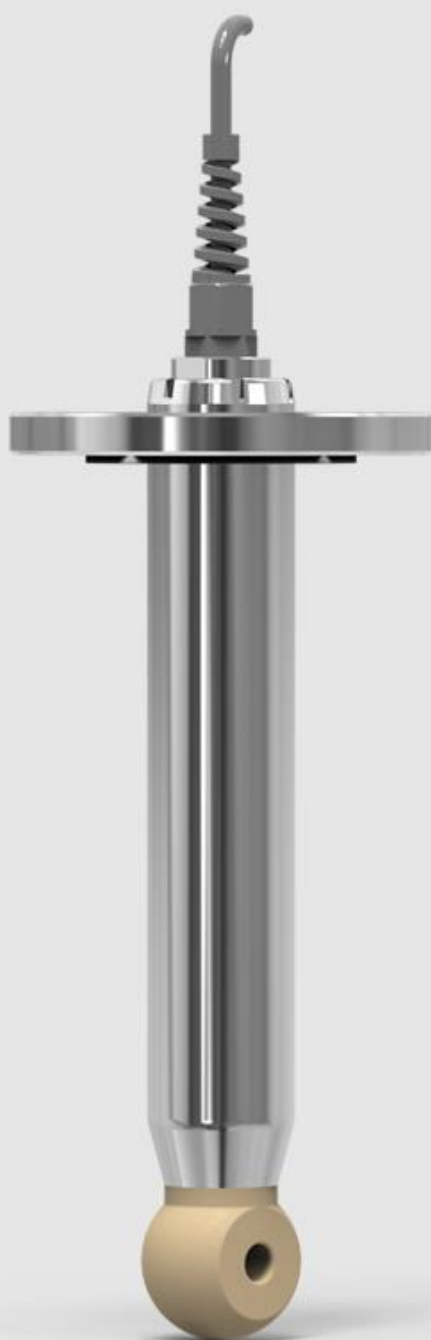


CID-3041-00
Code: 370246



CID-3041-03
Code: 3702463
Sanitary clamp

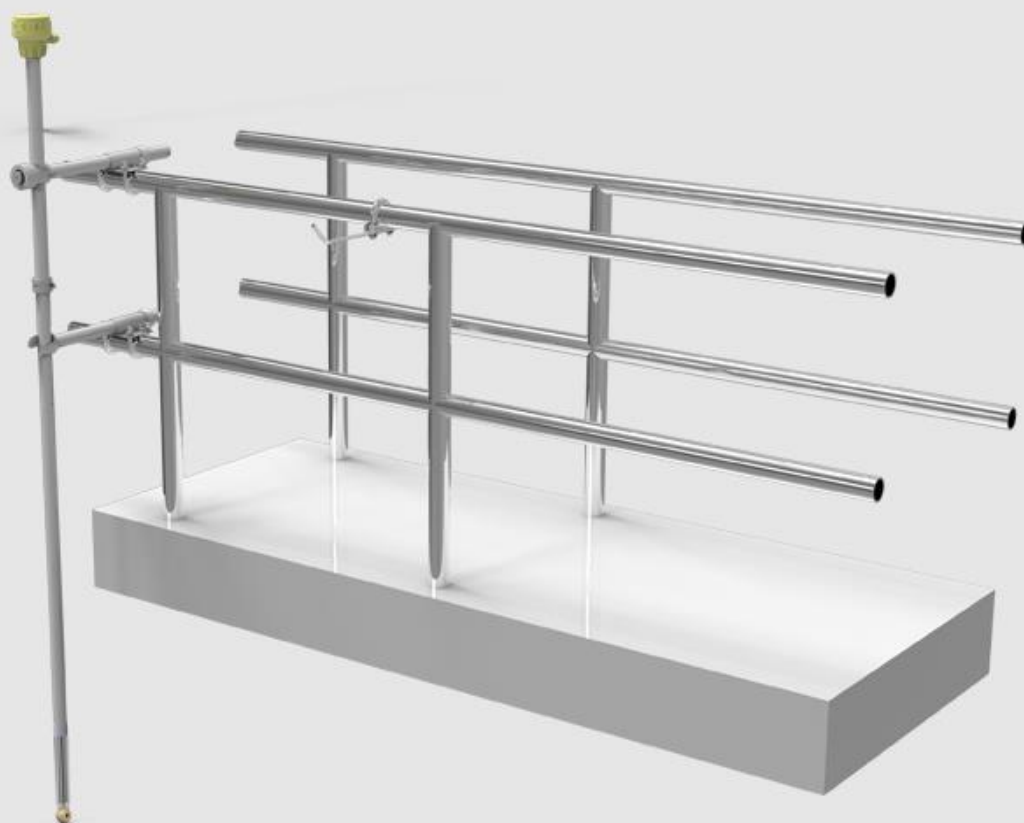




CID-3041-04
Code: 3702464
Sanitary clamp



CID-3041-06
Code: 3702466
Tank installation



CID-3041-07

Code: 3702467

Environment protection bracket

Pipeline mounted



18. CIT-8800 Inductive Conductivity / Concentration Online Controller

■ Application:

- ◆ Conductivity, TDS, Concentration Online Controller of Strong electrolyte aqueous solution;
- ◆ Acid and alkali regeneration process on-line concentration analysis of anionic, cationic exchange resin;
- ◆ Conductivity of low viscosity, multi-phase liquid online analysis;
- ◆ Chemical process, electroplating, coating, oil, metal processing and other industrial conductivity on-line analysis;
- ◆ CIP cleaning, sewage treatment and seawater desalination, circulating cooling water, environmental water quality monitoring.

■ Characteristics:

- ◆ Conductivity/Concentration/TDS/Temperature integration;
- ◆ Conductivity/TDS/concentration/temperature transmit;
- ◆ RS485 MODBUS-RTU protocol;
- ◆ Double channels/isolated (4~20)mA output, Instrument/Transmitter mode for selection;
- ◆ 3.5"320×240 TFT color screen, Chinese/English for optional;
- ◆ Touch keys, humanism operation interface, guided menu;
- ◆ Support conductivity measurement range (0.5~2000)mS/cm, Auto range;
- ◆ Application-oriented can be customized, designed accessory for a variety of use conditions;
- ◆ Built-in NaOH, HNO₃ concentration curve, Other newsolution can be calibrate;
- ◆ Sensor material for optional, for highly corrosive, health requirements;
- ◆ Electromagnetic compatibility, with strong ability of anti-interference;
- ◆ Calendar function which can set timing and reserved timing;
- ◆ Password protection function, strengthen system security.



■ Main technical features:

Measurement range	Conductivity: (500~2,000,000) μ S/cm Concentration: 1.NaOH: (0~15)% or (25~50)%; 2.HNO ₃ : (0~25)% or (36~82)%; 3.User-defined concentration curves TDS: (250~1,000,000)ppm Temp.: (0.0~120.0) $^{\circ}$ C	
Resolution	Conductivity: 0.01 μ S/cm; Concentration: 0.01%; TDS: 0.01ppm; Temp.: 0.1 $^{\circ}$ C	
Accuracy	Conductivity: (500~1000) μ S/cm \pm 10 μ S/cm (1~2000)mS/cm \pm 1.0% TDS: 1.5 level Temp.: \pm 0.5 $^{\circ}$ C	
Temp. compensation	range: (0.0~120.0) $^{\circ}$ C	element: Pt1000
Analog output	Two channels isolated、transportable (4~20)mA, Instrument / Transmitter for selection	
Control output	Triple channels semiconductor photoelectric switch, ProgrammableSwitch, pulse and frequency	
Power supply	AC/DC 30V, 50mA(max)	
Data communication	RS485, Modbus RTU protocol	
Power supply	DC 24V \pm 15%	
Consumption	<5.5W	
Working environment	Temperature (0~50) $^{\circ}$ C; Relative Humidity \leq 85%RH (non-condensing)	
Storage	Temperature (-20~60) $^{\circ}$ C; Relative Humidity \leq 85%RH (non-condensing)	
Protection level	IP65 (with rear cover)	
Outline dimension	96mm \times 96mm \times 94mm (H \times W \times D)	
Hole dimension	91mm \times 91mm (H \times W)	
Installation	Panel mounted, fast installation	