

# Датчики уровня

## Liquipoint FTW23, FTW31, FTW32, FTW33

### Техническая информация

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: [ehr@nt-rt.ru](mailto:ehr@nt-rt.ru) || сайт: <https://endcounters.nt-rt.ru/>

# Capacitance Point level detection Liquipoint FTW23

Cost effective point level switch for water-based liquids



## Benefits:

- Easy installation thanks to compact design, even in tight conditions or where access is restricted
- IO-Link reduces costs and complexity due to easy configuration of the devices via engineering tools
- CIP and SIP cleanability ensured - up to protection class IP 69
- Individual adjustment to each medium not necessary
- LED display for on-site function check

## Specs at a glance

- **Process temperature** Standard: -20 ... 100°C Cleaning: -20 ... 135°C for 1h -4 ... 275F for 1h
- **Process pressure / max. overpressure limit** Vacuum ... 16 bar Vacuum ....232 psi

**Field of application:** The Liquipoint FTW23 is developed and built for the food industry and meets all international hygiene requirements. The device also fits perfectly for industrial applications in all industries. It is intended for use in applications in liquid media without build-up. The IO-Link capability allows easy parameter setting.

## Features and specifications

Point Level / Liquids

**Measuring principle**  
Capacitive Liquid

---

**Point Level / Liquids****Characteristic / Application**

Compact point level switch for using in water based liquids

---

**Specialities**

CIP and SIP suitable

---

**Supply / Communication**

10...30 V DC

---

**Ambient temperature**

-20...70°C

-4... 158°F

---

**Process temperature**

Standard:

-20 ... 100°C

Cleaning:

-20 ... 135°C for 1h

-4 ... 275F for 1h

---

**Process pressure / max. overpressure limit**

Vacuum ... 16 bar

Vacuum ....232 psi

---

**Main wetted parts**

Sensor: 316L

Sensor isolation: PEEK

---

**Process connection**

Thread G1, G1/2, G3/4, M24

---

**Communication**

DC PNP

IO- Link

---

**Certificates / Approvals**

CSA C/US

---

Point Level / Liquids

**Design approvals**

EN 10204-3.1

---

**Hygienic approvals**

3A, EHEDG

---

**Options**

Weld-in adapter,  
Process adapter for hygienic process connections

---

**Application limits**

Conductive foam is recognizes as a liquid

---

# Conductive Point level detection Liquipoint FTW31

Rod probe for multipoint detection for up to 5 switch points



## Benefits:

- Cost-effective probe for conductive liquids with detection of up to five point levels with one probe
- No calibration required
- Standard setting for the most common conductive liquids
- No moving parts in the tank - long service life, reliable operation with no wear or blockages

## Specs at a glance

- **Process temperature** -40 °C ... 100 °C (-40 °F ... 212 °F)
- **Process pressure / max. overpressure limit** Vacuum ... 10 bar (Vacuum ... 145 psi)
- **Min. conductivity of medium** 10 µS/cm

**Field of application:** The Liquipoint FTW31 offers simple and safe point level detection in conductive liquids. It offers numerous measuring possibilities due to multipoint detection (up to 5 rods).

## Features and specifications

### Point Level / Liquids

#### Measuring principle

Conductive

#### Characteristic / Application

Compact rod probe with multipoint detection, possible up to 5 switch points. Simple rod shortening.

---

**Point Level / Liquids****Supply / Communication**

DC PNP 10,8V ... 45V  
Relay 20V ... 230V AC  
Relay 20V ... 55V DC

---

**Ambient temperature**

-40 °C ... 70 °C  
(-40 °F ... 158 °F)

---

**Process temperature**

-40 °C ... 100 °C  
(-40 °F ... 212 °F)

---

**Process pressure / max. overpressure limit**

Vacuum ... 10 bar  
(Vacuum ... 145 psi)

---

**Min. conductivity of medium**

10 µS/cm

---

**Main wetted parts**

316L, PP, PPS

---

**Max. tensile strength**

1000 N

---

**Process connection**

G 1 1/2  
NPT1 1/2"

---

**Sensor length**

0.1m ... 4m  
(3.9" ... 157")

---

**Communication**

DC PNP  
Relay

---

Point Level / Liquids

**Certificates / Approvals**

ATEX, EAC Ex

---

**Safety approvals**

Leakage Detection

---

**Components**

Transmitter: FTW325

---

**Application limits**

Observe min. medium conductivity

---

# Conductive Point level detection Liquipoint FTW32

Rope probe for multipoint detection for up to 5 switch points



## Benefits:

- Cost-effective probe for conductive liquids with detection of up to five point levels with one probe
- No calibration required
- Standard setting for the most common conductive liquids
- No moving parts in the tank - long service life, reliable operation with no wear or blockages

## Specs at a glance

- **Process temperature** -40 °C ... 70 °C (-40 °F ... 158 °F)
- **Process pressure / max. overpressure limit** Vacuum ... 10 bar (Vacuum ... 145 psi)
- **Min. conductivity of medium** 10 µS/cm

**Field of application:** The Liquipoint FTW32 offers simple and safe point level detection in conductive liquids. It offers numerous measuring possibilities due to multipoint detection (up to 5 rods).

## Features and specifications

### Point Level / Liquids

#### Measuring principle

Conductive

#### Characteristic / Application

Compact rope probe with multi point detection possible up to 5 switch points. Simple rope shortening possible



---

**Point Level / Liquids****Supply / Communication**

DC PNP 10,8V ... 45V  
Relay 20V ... 230V AC  
Relay 20V ... 55V DC

---

**Ambient temperature**

-40 °C ... 70 °C  
(-40 °F ... 158 °F)

---

**Process temperature**

-40 °C ... 70 °C  
(-40 °F ... 158 °F)

---

**Process pressure / max. overpressure limit**

Vacuum ... 10 bar  
(Vacuum ... 145 psi)

---

**Min. conductivity of medium**

10 µS/cm

---

**Main wetted parts**

316L, FEP, PPS

---

**Max. tensile strength**

500 N

---

**Process connection**

G 1 1/2  
NPT1 1/2"

---

**Sensor length**

0.25m ... 15m  
(10" ... 590")

---

**Communication**

DC PNP  
Relay

---

Point Level / Liquids

**Certificates / Approvals**

ATEX, EAC Ex

---

**Safety approvals**

Leakage Detection

---

**Components**

Transmitter: FTW325

---

**Application limits**

Observe min. medium conductivity

---

# Conductive Point level detection Liquipoint FTW33

Very compact flush-mounted probe for liquid and pasty media



## Benefits:

- Perfect fit to the hygienic industry thanks to flush-mounted design, which allows pigging of pipes
- Safe and reliable measurement due to build-up compensation, ensuring reliable switching; IO-Link reduces costs and complexity due to easy configuration and flexible integration in all fieldbus systems
- Individual adjustment to each medium not necessary
- Easy installation thanks to compact design, even in tight conditions or where access is restricted
- Broad range of process connections for installation in new and existing plants
- CIP and SIP cleanability ensured - up to protection class IP 69
- LED display for on-site function check

## Specs at a glance

- **Process temperature** Standard: -20 ... 100°C Cleaning: -20 ... 150°C for 1h ( -4 ... 302°F for 1h)
- **Process pressure / max. overpressure limit** Vacuum ... 25 bar (Vacuum ... 362,5 psi)

**Field of application:** The Liquipoint FTW33 is developed for the food industry and meets all international hygiene requirements. The device also fits perfectly for applications in all industries. For use in pasty and sticky media and media with heavy build-up.

## Features and specifications

## Point Level / Liquids

### Measuring principle

Conductive

---

### Characteristic / Application

Compact point level switch for using in pipes and in storage, mixing and process vessels with or without an agitator, for water based or oil based media, with active build up compensation, flush mounting

---

### Specialities

CIP and SIP suitable

Conductive foam is detectable or can be switched off

---

### Supply / Communication

10...30 V DC

---

### Ambient temperature

-40 ... 70°C

(-40 ... 158°F)

---

### Process temperature

Standard:

-20 ... 100°C

Cleaning:

-20 ... 150°C for 1h

( -4 ... 302°F for 1h)

---

### Process pressure / max. overpressure limit

Vacuum ... 25 bar

(Vacuum ... 362,5 psi)

---

### Main wetted parts

Sensor: 316L

Sensor isolation: PEEK

---

### Process connection

Thread G1, G1/2, G3/4, M24

---

Point Level / Liquids

**Process connection hygienic**

Clamp ISO 2852 1 to 1 1/2", 2",  
DIN11851 Pipe union

---

**Communication**

DC PNP

---

**Certificates / Approvals**

CSA C/US

---

**Design approvals**

EN 10204-3.1

---

**Hygienic approvals**

3A, EHEDG

---

**Options**

Weld-in adapter,  
Process adapter for hygienic process connections

---

## По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37  
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Саранск (8342)22-96-24  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сургут (3462)77-98-35  
Сыктывкар (8212)25-95-17  
Тамбов (4752)50-40-97  
Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Улан-Удэ (3012)59-97-51  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

эл.почта: [ehr@nt-rt.ru](mailto:ehr@nt-rt.ru) || сайт: <https://endcounters.nt-rt.ru/>