

TecFLUID

The art of measuring



flow&level industrial instrumentation



FOR UNDERSTANDING THE WORLD WE NEED INSTRUMENTS TO MEASURE

MANUFACTURING CHRONOLOGY

- 1974** Borosilicate glass tube variable area flowmeters
- 1976** Magnetic coupling flowmeters
 - Metal tube variable area flowmeters
 - Target disk flowmeters
- 1978** Oscillating piston flowmeters
 - Turbine flowmeters
- 1979** Level indicators and switches activated by magnetic coupling
- 1980** By-pass flowmeters (orifice plate)
- 1984** Electronic converters
- 1987** Flow switches
- 1990** Electromagnetic flowmeters
- 1992** Plastic tube variable area flowmeters
- 1997** Vibrating fork level switches
- 2001** ATEX and Lloyd's Type Approval Certifications
- 2003** HART® communication protocol
- 2006** Ultrasonic level transmitters
- 2010** Guided radar level transmitters
- 2011** Ultrasonic flowmeters
- 2015** New line of electronic converters
 - TR CU Certificate of conformity
- 2018** IECEx Certification

TECFLUID S.A. have been designing and manufacturing flowmeters and level instrumentation products for more than 45 years. Our flow and level products can be found in a very wide and diverse range of process and manufacturing applications, and in some of the biggest companies in the world.

Our company started in January 1974 with the intention of meeting the growing demand of various industry sectors within Spain for flow metering and level measurement products that had previously only been available on an ex-import basis from other manufacturers. This demand gave us just the incentive we needed to establish Tecfluid.

The rapid growth of industries over the last years has enabled Tecfluid to introduce new product lines, and to enhance old ones, to meet the growing needs of our customers and to further expand our aspirations in the export market.

During our journey we have learned a lot thanks to the input from our customers and we have consistently invested in resources, both human and technical, to improve our products and manufacturing processes, and to remain technically relevant and competitive in today's world. This is why Tecfluid products are comparable to those produced by the most prestigious international companies.

Our strength lies in the constant innovation and customized manufacturing to suit the needs of each client. This has enabled us to adopt a progressive national and international expansion of our business, to the point where we currently have a presence in over 50 countries all over the world, operating through qualified local distributors having a unique knowledge of their individual markets and customers.

Our design and manufacturing processes were awarded with ISO9001 QAS certification in 1996, and further enhanced with ATEX, IECEx and Lloyd's Type Approval certifications that encompasses the entire design process, production, quality control and after sales service. In addition we have incorporated the HART® communication protocol in our transmitters and all our products meet the European Pressure Equipment Directive (PED). Likewise, following with our tendency towards international expansion, the TR CU Certification of conformity (EAC marking) is available since 2015.

TECFLUID S.A. are at your service, offering a wide range of well engineered and quality products and service that have gained the company a wide acceptance all over the world with our many national and international clients.

We appreciate the confidence and trust that our customers have placed in our products over the years, and assure them of our continued efforts to preserve that trust in the future.

Jordi Picazo

President of the Board and Founder



Series PS

Plastic tube variable area flowmeters



Sizes

1/2" ... 3"

Flow range H₂O

4 l/h ... 50 m³/h

Flow range AIR

200 NI/h ... 1500 Nm³/h

Accuracy

4% ... 6% (q_G=50%)

Materials

Flow tube: Polysulfone (PSU) or NAS®
Connections: PVC, PP, painted steel, EN 1.4404 (AISI 316L)

Features

1 or 2 switches

Accessories

4-20 mA output (max. resolution 18 points)

Options

Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request

Series 2000

Glass tube variable area flowmeters for low flows



1/4" ... 3/4"

0.1 l/h ... 1000 l/h

0.5 NI/h ... 30 Nm³/h

1.6% ... 3.5% (q_G=50%)

Flow tube: borosilicate glass

Connections: EN 1.4404 (AISI 316L)

1 or 2 switches

Regulating valve

Constant flow regulator

Series 6000

Glass tube variable area flowmeters



1/2" ... 3"

2.5 l/h ... 50 m³/h

40 NI/h ... 1500 Nm³/h

1.6% (q_G=50%)

Flow tube: borosilicate glass

Connections: painted steel, EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF

1 or 2 switches

4-20 mA output (max. resolution 18 points)

Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request



Series 60M1

Glass tube variable area flowmeters for low flows



Sizes

1/4" or 1/2"

Flow range H₂O

0.1 l/h ... 100 l/h

Flow range AIR

0.5 NI/h ... 3600 NI/h

Accuracy

3% (q_G=50%)

Materials

Flow tube: borosilicate glass
Connections: EN 1.4404 (AISI 316L)

Features

Accessories

Options

Series PR

Orifice plate flowmeters



DN50 ... DN1000

2 m³/h ... 20000 m³/h

30 Nm³/h ... 300000 Nm³/h

±4% f.s.

Plastic coated steel, PVC, PP, EN 1.4404 (AISI 316L)

1 or 2 switches

4-20 mA output

Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request depending on the transmitter model

Series AD / VH

Flow switches and indicators



AD: 1/4" ... 2 1/2" / VH: DN32 ... DN500

AD: 15 l/h ... 16000 l/h

AD: 300 NI/h ... 130 Nm³/h

AD: ±5% f.s.

AD: brass, EN 1.4404 (AISI 316L), aluminium




VH: EN 1.4404 (AISI 316L), PTFE

VH: insertion switch (1"). Non-adjustable switching position

AD: up to 4 switches depending on model.

4-20 mA output for models ADI

Ex version and HART® or MODBUS RTU RS485 protocols on request

	Series M21 Metal tube variable area flowmeters for low flows	Series SC250 Metal tube variable area flowmeters	Series DP Target disk flowmeters
			
<i>Sizes</i>	1/4" ... 3/4"	DN15 ... DN150	DN40 ... DN500
<i>Flow range H₂O</i>	0.4 l/h ... 1000 l/h	2.5 l/h ... 180 m ³ /h	0.8 m ³ /h ... 1600 m ³ /h
<i>Flow range AIR</i>	12 NI/h ... 30 Nm ³ /h	70 NI/h ... 5500 Nm ³ /h	45 Nm ³ /h ... 24000 Nm ³ /h
<i>Accuracy</i>	4% (q _G =50%)	2.5% (q _G =50%)	DP65: ±2.5% f.s. / DP500: ±4% f.s.
<i>Materials</i>	EN 1.4404 (AISI 316L), Titanium, Hastelloy C	EN 1.4404 (AISI 316L), PVC, PP, PTFE, Titanium, Hastelloy C	Painted steel, EN 1.4404 (AISI 316L), Hastelloy C
<i>Features</i>	1 or 2 switches 4-20 mA output	1 or 2 switches 4-20 mA and digital outputs, totalizer	1 or 2 switches 4-20 mA and digital outputs, totalizer
<i>Accessories</i>	Ex version and HART® or MODBUS RTU RS485 protocols on request	Ex version and HART® or MODBUS RTU RS485 protocols on request	Ex version and HART® or MODBUS RTU RS485 protocols on request
<i>Options</i>	Regulating valve Constant flow regulator AISI 316L housing optional	Programmable by means of PC & USB cable AISI 316L or PP housing optional Accuracy 1.6% (q _G =50%)	Programmable by means of PC & USB cable AISI 316L or PP housing optional Accuracy DP65 ±1.6% f.s.

	Series CU Ultrasonic flowmeters	Series FLOMID Electromagnetic flowmeters	Series FLOMAT Insertion electromagnetic flowmeters
			
<i>Sizes</i>	DN80 ... DN2000	DN3 ... DN600	DN40 ... DN2000
<i>Flow range H₂O</i>	3.6 m ³ /h ... 135700 m ³ /h	5 l/h ... 10100 m ³ /h	900 l/h ... 113000 m ³ /h
<i>Flow range AIR</i>	-	-	-
<i>Accuracy</i>	±1.5% measured value ±0.02 m/s	±0.5% measured value	±3.5% measured value
<i>Materials</i>	Transducers: PET + Epoxy Electronic converter: ABS Transducers guide: anodized aluminium	Lining: PP, PVDF, Ebonite, PTFE Electrodes: Hastelloy C, EN 1.4404 (AISI 316L), Titanium, Tantalum	Sensor: EN 1.4404 (AISI 316L), PVDF Head: PVDF Electrodes: EN 1.4404 (AISI 316L). Others on request
<i>Features</i>	Non-invasive flowmeter Flow indication, totalizer	Flow indication, totalizer 4-20 mA and pulse outputs	Flow indication, totalizer 4-20 mA and pulse outputs
<i>Accessories</i>	4-20 mA output	2 alarm outputs	2 alarm outputs
<i>Options</i>	2 alarm outputs Programmable by means of PC & USB cable	HART® or MODBUS RTU RS485 protocols on request Programmable by means of PC & USB cable	HART® or MODBUS RTU RS485 protocols on request Programmable by means of PC & USB cable FLOMAT-TAP for maintenance purposes without flow interruptions



Series TM
Turbine flowmeters



Series COVOL
Oscillating piston flowmeters



Series CIP / CP / MT03 / DFD420
Displays and converters



Sizes	DN15 ... DN150	DN10 ... DN100	Associated to series COVOL, TM and others
Flow range H ₂ O	400 l/h ... 650 m ³ /h	25 l/h ... 60 m ³ /h	-
Flow range AIR	-	-	-
Accuracy	±0.5% measured value	±0.8% measured value	Depending on associated converter
Materials	Body: EN 1.4404 (AISI 316L) Propeller: EN 1.4460 (AISI 329), EN 1.4016 (AISI 430) Shaft / bearing: tungstene carbide / graphite	Body: EN 1.4404 (AISI 316L), PVC, PP, PTFE Piston: PTFE-graphite, PVDF, bronze, aluminium	-
Features	Pick-up coil output	Viscosity up to 120000 mPa·s	CIPII: non-resettable totalizer and resettable partial counter
Accessories	Displays and converters: CIP, CP, MT03 and DFD420	Reed switch output	CP420: flow indication, totalizer, 4-20 mA output. HART® protocol for models CH420
Options	HART® or MODBUS RTU RS485 protocols on request Ex d IIC T6 version on request	Displays and converters: CIP, CP, MT03 and DFD420 HART® or MODBUS RTU RS485 protocols on request Ex d IIC T6 version on request	MT03: flow indication, totalizer, 4-20 mA and pulse outputs and 2 x relay outputs. MODBUS RTU RS485 protocol on request DFD420: pulse divider with opto-isolated and 4-20 mA outputs



Series LT
Level indicators, transmitters and
switches



Series LS
Level indicators, transmitters and
switches



Series LP
Level indicators, transmitters and
switches



Measuring range	0.15 ... 15 m	0.15 ... 15 m	0.3 ... 6 m
Accuracy	±10 mm	±10 mm	±5 mm measured value
Materials	EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF	EN 1.4404 (AISI 316L). Others on request	Body: EN 1.4404 (AISI 316L), Hastelloy C, Titanium Float: EN 1.4404 (AISI 316L), PVC, PP, PVDF, Hastelloy C, Titanium
Features	Side mounted	Top mounted	Side or top mounted
Accessories	Adjustable switches. Ex d IIC T6 version optional	Adjustable switches	1 or 2 switches
Options	4-20 mA output (plastic housing, aluminium optional) Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request	4-20 mA output (plastic housing, aluminium optional) Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request	4-20 mA output Ex version and HART® or MODBUS RTU RS485 protocols on request Programmable by means of PC & USB cable AISI 316L or PP housing optional



Series LTDR
Guided radar TDR level transmitters



Single rod probe: 100 ... 3000 mm
Coaxial probe: 100 ... 6000 mm
Rope probe: 1 ... 20 m

Measuring range

Accuracy

±3 mm

Materials

EN 1.4404 (AISI 316L)
PTFE coating on request

Features

Top or side mounted
Suitable for liquids and solids

Accessories

4-20 mA output, 1 alarm output

Options

Ex version and extended temperature range version on request
MODBUS RTU RS485 protocol on request

Series LU
Ultrasonic level transmitters



Liquids: up to 12 m
Solids: up to 7 m

±2 mm (between 0.35 ... 2 m)

Body: PP, PVDF

Transducer: PVDF

Housing: polycarbonate, aluminium

Top mounted

Suitable for liquids and solids

Level indication (display optional)

4-20 mA output, 2 alarm outputs

HART® or MODBUS RTU RS485 protocols on request

Programmable by means of PC & USB cable

Series LD
Vibrating fork level switches



Detection length: up to 2 m

Hysteresis ±2 mm (with H₂O)

EN 1.4404 (AISI 316L)

HALAR® coating on request

Side or top mounted

Suitable for liquids (model LD61) and for solids (model LD60)

NAMUR Exi version and relay output on request

Series LC / LE
Float level switches and transmitters



0.3 ... 6 m

Measuring range

Accuracy

±10 mm

Materials

Body and float: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF

Housing: polycarbonate, aluminium

Features

Top mounted. Side mounted with special design

LC: 1 ... 6 switches depending on model.
Ex version

Accessories

Options

LE: 4-20 mA output, Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request

Series LC40
Float level switches



Switching differential: 52 ... 1100 mm

Body and float: EN 1.4404 (AISI 316L), PVC, PP, PTFE, PVDF

Housing: aluminium, PVC, AISI 316L

Side or top mounted

Alarm switches: micro-switch (AMM), reed (AMR), pneumatic (AMP), inductive (AMD)

Ex d IIC T6 version on request

Series NPC
Level indicators



Up to 15 m

±10 mm

Pulleys and counterweight (external indicator): PVC

Float: PP, PVC, PVDF, EN 1.4404 (AISI 316L)

Adjustable switches

4-20 mA output (plastic housing, aluminium optional)

Ex version and HART®, Profibus, Fieldbus or MODBUS RTU RS485 protocols on request



Flow rig for sizes
DN3 ... DN600

Manufacturing of tapered
borosilicate glass tubes

Production facilities including fully automatic machining with
±0.001 mm accuracy, welding center and electronics manufacture

Subsidiary
Tecfluid France S.A.R.L.
Paris

Main offices and production facilities
Sant Just Desvern (Barcelona)

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