InTrac 77X e Housing

Retractable Housing

With Advanced Safety System

No process leaks

The Tri-Lock safety system prevents any release of process media from the housing. Without the presence of a sensor, the housing cannot be inserted into the process.

Reduced operating costs

The InTrac family of retractable housings helps to substantially reduce the operating costs of a measuring point, by allowing well-planned automatic cleaning and calibration of pH sensors, which will increase their average operational life significantly.

Broad-based electrode and sensor compatibility

A wide variety of different types of electrodes and sensors can be used in conjunction with the InTrac family of retractable housings, whether in the measurement of pH/redox, dissolved oxygen, CO_2, conductivity or turbidity.

Flexibility of process adaption

The InTrac series offers a variety of different process adaptions, ranging from the tried and tested Ingold sockets and flange fixtures, to special hygienic connection systems.

USP Class VI

FDA

CE

UK CA

Ex

FM APPROVED

InTrac 77X e Retractable Housings

For High Operational Safety

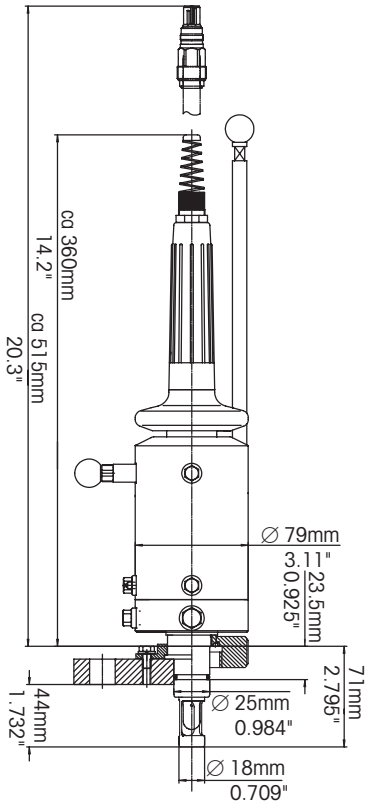
The InTrac™ 776e/777e/779e series are designed as process connections for applications with highly demanding conditions. They feature the Tri-Lock™ safety system to prevent any release of process media from the housings.

The InTrac 777e integrates with 12 mm pH/ORP, dissolved oxygen, CO_2 and conductivity sensors. The InTrac 776e is specially designed for refillable pH/ORP sensors and the InTrac 779e is designed for turbidity sensors. The large selection of wetted materials and process adaptions make the housings suitable for applications in the chemical and pharmaceutical industries and also meet the demands of engineering companies.

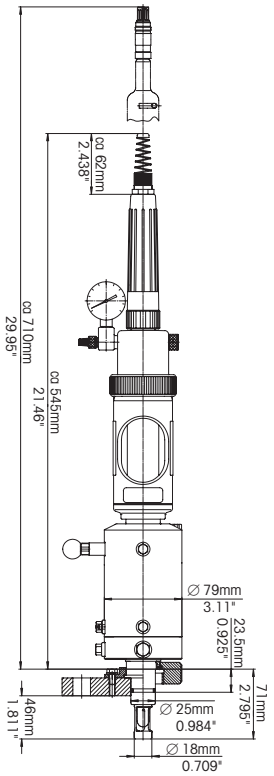
METTLER TOLEDO

Technical data of the InTrac 77Xe

Temperature	POM-body: 0 … 70 °C (32 … 158 °F) S/S-body: –10 … 70 °C (14 … 158 °F)
Functional pressure range	Manual: 0 … 5 bar (0 … 73 psig) Pneumatic: 0 … 8 bar (0 … 116 psig)
Max. permissible pressure [PS]/[TS] (linear decreasing)	**PP** 6 bar/20 °C (87 psig/68 °F) 0 bar/80 °C (0 psig/176 °F) **PVDF** 6 bar/20 °C (87 psig/68 °F) 1 bar/110 °C (15 psig/230 °F) **PEEK** 6 bar/20 °C (87 psig/68 °F) 1 bar/110 °C (15 psig/230 °F) **1.4404/316L, 2.4602/Alloy C22, Ti** 16 bar/140 °C (232 psig/284 °F)
Operation	Manual or pneumatic
Insertion length	70mm/100mm/200mm
Wetted parts	DIN1.4404/AISI 316L, DIN 2.4602/AISI Alloy C22, titanium, PP, PVDF, PEEK
Wetted O-rings	FKM-FDA, EPDM-FDA, FFKM-FDA
Non-wetted parts	Body: Polyoxymethylene (POM) conductive or DIN 1.4404/AISI 316L Protective sleeve: Polypropylene (PP) conductive
Weight	Approx. 4.5 kg
Outer dimensions	**Short version InTrac 77Xe (70/100mm)** length: approx. 360mm in measuring position length: approx. 515mm for electrode removal (minimum) **Long version InTrac 77Xe (200mm)** length: approx. 460mm in measuring position length: approx. 915mm for electrode removal (minimum)
Pneumatic connections	4 … 8 bar/58 … 116 psig
Air quality to ISO 8573-1	– Air moisture content class 4 (dew point +3 °C) – Solids class 5 (filter 40 µm) – Max. oil content class 2 (0.1 mg/m³) – Air connections for hoses 6/4 mm
Flushing chamber connections	2 … 6 bar (29 … 87 psig) 1 × connection IN: thread G 1/8" 1 x connection OUT: thread G 1/4" 1 x connection TEMP: thread G 1/8"
Position monitoring	Pneumatic check-back (3/2 way-valve); G 1/8" Inductive check-back, non-Ex, M 12 × 1 Inductive check-back, Ex, M 12 × 1
Pressure information	According to PED-Article 1, Section 2.2: "Pressure is referenced to atmospheric pressure, e.g. an overpressure. Accordingly, a pressure in the vacuum region will be expressed as a negative pressure.
Explosion protection (valid for all housings with medium wetted parts made of metal)	According to ATEX directive (2014/34/EU): II 1/2G Ex h IIC T6 … T3 Ga/Gb II 1/2D Ex h IIIC T69 °C...T131 °C Da/Db SEV 13 ATEX 0161X, IECEx SEV 19.0014X, CML 22 UKEX 6413X According to FM guidelines: IS CL I,II,III, Div 1, GR A,B,C,D,E,F,G, Tamb. = 0 °C to + 60 °C FM control drawing: 53800002; Entity Original project ID 3021227; FM Certificate number: FM16US0034X, FM18CA0021X
Certificates	Declaration of conformity CE Pressure equipment directive (PED) 2014/68/EU Certificate of compliance with the order EN10204-2.1 Inspection certificate 3.1 ATEX (20147/34/EU), FM certificate, IECEx, UKEX and MaxCert™



Example technical drawing of the InTrac 777e



Example technical drawing of the InTrac 776e

www.mt.com/InTrac77Xe

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For more information