

TURBINE FLOWMETERS WITH LOCAL DIGITAL DISPLAY

FTB791
Starts at
\$675



- ✓ Indicates Both Rate and Total
- ✓ Up to 1% Reading Accuracy
- ✓ 6-Digit Display
- ✓ Signal Output Capabilities
- ✓ Reads GPM or LPM (Field Selectable)
- ✓ Battery Operated (Included)
- ✓ PVDF or PVC Models Also Available (See Pages F-63 to F-65)

FTB790 Series turbine meters with microprocessor-based electronics offers a durable, compact, high-precision fluid measurement device, with total and rate indication. Information is clearly displayed on a large 6-digit liquid crystal display with only 2-point floating decimal for totals from 0.01 to 999,999. All operations are easily performed with only 2 buttons. The basic unit and display are powered by 2 lithium batteries, providing up to 5 years of use. Cumulative total, batch total, and rate of flow are standard. A single-point field calibration curve can be stored in memory.

The turbine meter can also be ordered without display electronics. A special pulse output model (FLSC790-P-ND) must be ordered to obtain an open collector current sinking output operated on 9 to 35 Vdc. The output is a square wave pulse with a 3-wire connection.

Accessories for Turbine Meters With the Display:

The FLSC790-MA provides a 4 to 20 mA or 0 to 5 Vdc output for rate indication. The output module requires field calibration. The 4 to 20 mA dc is a 2-wire

All models shown smaller than actual size.

FTB795,
\$1275

FTB792,
\$685



FTB791,
\$675



FTB794,
\$975



FTB793,
\$700



system requiring 8 to 30 Vdc power (24 Vdc recommended).

The FLSC790-P pulse output module provides an unscaled open collector sinking output operating on an applied voltage of 0 to 60 Vdc. The output is a square wave pulse with an amplitude the same as the supplied voltage.

The FLSC790-P-DC external power module for the FLSC790-P, allows for 9 to 30 Vdc external power for the pulse output. Internal batteries in the display can be used as an auxiliary power source.

The FTB790-RK remote kit allows remote mounting of display electronics. This option expands the applications into wider fluid

temperature ranges to -40 to 121°C (-40 to 250°F). The LCD display can be mounted up to 90 m (300') from the turbine meter.

The FTB790-RK-FM is an FM approved remote kit. It allows the display electronics to be mounted in a hazardous area up to 30 m (100') from the turbine meter and for fluid temperatures of -40 to 121°C (-40 to 250°F).

The FLSC790-BATT is the replacement battery for the display electronics. Batteries provide 5 years of use.

The FLSC790-90D is a 90° mounting adaptor designed to allow displays to be mounted 90° from the standard position.

SPECIFICATIONS

Accuracy:

FTB-791: ±2% rdg

FTB-792, FTB-793: ±1.5% rdg

FTB-794, FTB-795: ±1.0% rdg

Extended Low Flow Range Accuracy: ±5.0% of reading (display models only)

Repeatability: ±0.1%

Pressure Rating: 1500 psig (103 bar)

Temperature Range:

With Remote Electronics Kit:

-40 to 121°C (-40 to 250°F)

Without Remote Electronics:

-10° to 60°C (14 to 140°F)

Viscosity: Rated accuracy for fluids with viscosity of water (1 cSt); meters with display can be used for fluids up to 100 cSt with field calibration

Wetted Components:

Housing: 316 SS

Journal Bearings: Ceramic (96% alumina)

Shaft: Tungsten carbide

Rotor and Supports: PVDF

Retaining Rings: 316 SS

Display: 6-Digit LCD indicates flow rate, batch and cumulative total

Battery Life: 5 years

FM Approvals: Turbine meters with display and no accessories are FM approved for Class 1, Div. 1 hazardous environments

Note: Outputs and accessories are not designed for hazardous environments



FTB795, \$1275, shown actual size.



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No. w/Display	Price	Model No. w/o Display*	Price	Range GPM (LPM)	Extended Range Low Flow**	FNPT Size	Pressure Drop (psi)	Length mm (in)	Weight kg (lb) includes display	Opt pulse K-factor pulse/gal (nom)
FTB791	\$675	FTB791-ND	\$380	1 to 10 (3.8 to 37.9)	0.5 (1.9)	1/2	8.0	107 (4.2)	1.0 (2.3)	2500
FTB792	685	FTB792-ND	395	2 to 20 (7.6 to 75.7)	1.0 (3.8)	3/4	7.5	109 (4.3)	1.1 (2.5)	1100
FTB793	700	FTB793-ND	405	5 to 50 (18.9 to 190)	2.5 (9.5)	1	5.0	114 (4.5)	1.3 (3.0)	565
FTB794	975	FTB794-ND	680	10 to 100 (38 to 380)	5.0 (9.0)	1 1/2	4.0	135 (5.3)	2.1 (4.6)	215
FTB795	1275	FTB795-ND	980	20 to 200 (76 to 760)	10.0 (38)	2	4.0	160 (6.3)	3.1 (6.8)	100

* Requires signal output module model **FLSC790-P-ND**, ordered separately, \$270.

** Extended low flow range and field calibration for viscosity not available on "-ND" (no display) units.

Field Installable Options and Accessories

Model Number	Price	Description
FLSC790-MA	\$355	4 to 20 mA/0 to 5 Vdc output module
FLSC790-P	95	Pulse output module; open collector output
FLSC790-P-DC	92	External power module for FLSC790-P (9 to 30 Vdc)
FTB790-RK	245	Remote display kit module
FTB790-RK-FM	245	FM approved remote display kit module
FLSC790-BATT	38	Two 3V replacement batteries
FLSC790-P-ND	270	Pulse output for models without displays ("-ND" suffix); open collector output
FLSC790-90D	56	90° display mounting adaptor

Except as noted, options and accessories are for display models only. Only one module can be installed per unit.

Comes complete with 3 m (10') cable, two 3V lithium batteries and operator's manual.

Ordering Examples: FTB793, 1" turbine meter, with FLSC790-MA, field installable 4 to 20 mA dc output, \$700 + 355 = \$1055.

FTB795, 2" turbine meter with FLSC790-P pulse output module and FLSC790-P-DC power module, \$1275 + 95 + 92 = \$1462.

Recommended Reference Book: Flow Measurement Methods and Applications
FW-0118, \$155. Visit omega.com/bobi for Additional Books





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