




## Alarm Devices &amp; Monitoring | Flow Devices | Flowmeter | Turbo-Lux 3 Digital - Calibrated



## SPECIFICATIONS

Included	Turbo-Lux 3 Digital indicator complete with orifice plate & set calibration
Approvals	
Sizes available (nominal)	2"/DN50 to 12"/DN300
Pressure data	34.5 bar (DN50-DN200) 16.0 bar (DN250 & DN300)
Temperature data	+4 °C to 50 °C (39 °F to 122 °F)
Flow range	75 to 38,000 l/min (20 to 10,000 US gpm)
Output	Digital display (EN/FR/DE), 4-20mA
Power supply	12/24VDC
Connection	Grooved (Orifice plate) M12 4-pin (Display output) M30 x 1.5 (Display to orifice plate assembly)
Accuracy	±2%
Installation	Standard: Maintain 5 pipe diameters upstream and 2 pipe diameters downstream
Application	A single unit can connect to ANY Turbolux 3 orifice plate assembly (existing or new)
Scale unit	l/min & gpm

## Physical data &amp; part numbers - How to order

- Select one of the 20 calibrated sets (contains digital indicator, orifice plate and calibration certificate).
- Select further components if needed.
  - Choose one of the three power supplies
  - Add spare parts and/or accessories (optional)

## 1. Calibrated sets (including indicator and set calibration)

Part number	Nominal Size		Pipe OD (mm)	Length L (mm)	Length M (mm)	Pump Rating (gpm)	Range		Weight* (kg)
	Metric	inch					lpm	gpm	
TL3D-060-50C	DN50	2"	60.3	100	243.3	50	75-375	20-100	2.0
TL3D-073-100C	DN65	2-1/2"	73.0	100	259.1	100	150-750	40-200	2.1
TL3D-076-100C	DN65	2-1/2"	76.1	100	259.1	100	150-750	40-200	2.1
TL3D-089-150C	DN80	3"	88.9	100	271.9	150	220-1,100	60-300	2.3
TL3D-089-200C	DN80	3"	88.9	100	271.9	200	300-1,500	80-400	2.3
TL3D-114-250C	DN100	4"	114.3	100	297.3	250	380-1,900	100-500	3.2
TL3D-114-300C	DN100	4"	114.3	100	297.3	300	460-2,300	120-600	3.2
TL3D-114-400C	DN100	4"	114.3	100	297.3	400	600-3,000	160-800	3.2
TL3D-114-450C	DN100	4"	114.3	100	297.3	450	680-3,400	180-900	3.2

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1. Calibrated sets (including indicator and set calibration) *(continued)*

Part number	Nominal Size		Pipe OD (mm)	Length L (mm)	Length M (mm)	Pump Rating (gpm)	Range		Weight* (kg)
	Metric	inch					lpm	gpm	
TL3D-165-500C	DN150	6"	165.1	200	247.4	500	760-3,800	200-1,000	4.9
TL3D-165-750C	DN150	6"	165.1	200	247.4	750	1,130-5,650	300-1,500	4.9
TL3D-165-1000C	DN150	6"	165.1	200	247.4	1,000	1,500-7,500	400-2,000	4.9
TL3D-165-1250C	DN150	6"	165.1	200	247.4	1,250	1,900-9,500	500-2,500	4.9
TL3D-168-500C	DN150	6"	168.3	200	350.6	500	760-3,800	200-1,000	4.9
TL3D-168-750C	DN150	6"	168.3	200	350.6	750	1,130-5,650	300-1,500	4.9
TL3D-168-1000C	DN150	6"	168.3	200	350.6	1,000	1,500-7,500	400-2,000	4.9
TL3D-168-1250C	DN150	6"	168.3	200	350.6	1,250	1,900-9,500	500-2,500	4.9
TL3D-219-1500C	DN200	8"	219.1	200	402.3	1,500	2,200-11,000	600-3,000	6.4
TL3D-219-2000C	DN200	8"	219.1	200	402.3	2,000	3,000-15,000	800-4,000	6.4
TL3D-219-2500C	DN200	8"	219.1	200	402.3	2,500	3,800-19,000	1,000-5,000	6.4

## 2. A. Power Supply (optional)

Part Number	Description
TL3D-Cable	5 m connection cable for Turbo-Lux 3 Digital
TL3D-EU-Power	Plug-in power supply unit for Turbo-Lux 3 Digital, cable length 1.5 m - EU version
TL3D-GB-Power	Plug-in power supply unit for Turbo-Lux 3 Digital, cable length 1.5 m - GB version



5 m cable



Plug-in power supply

## 2. B. Spare &amp; Accessories (optional)

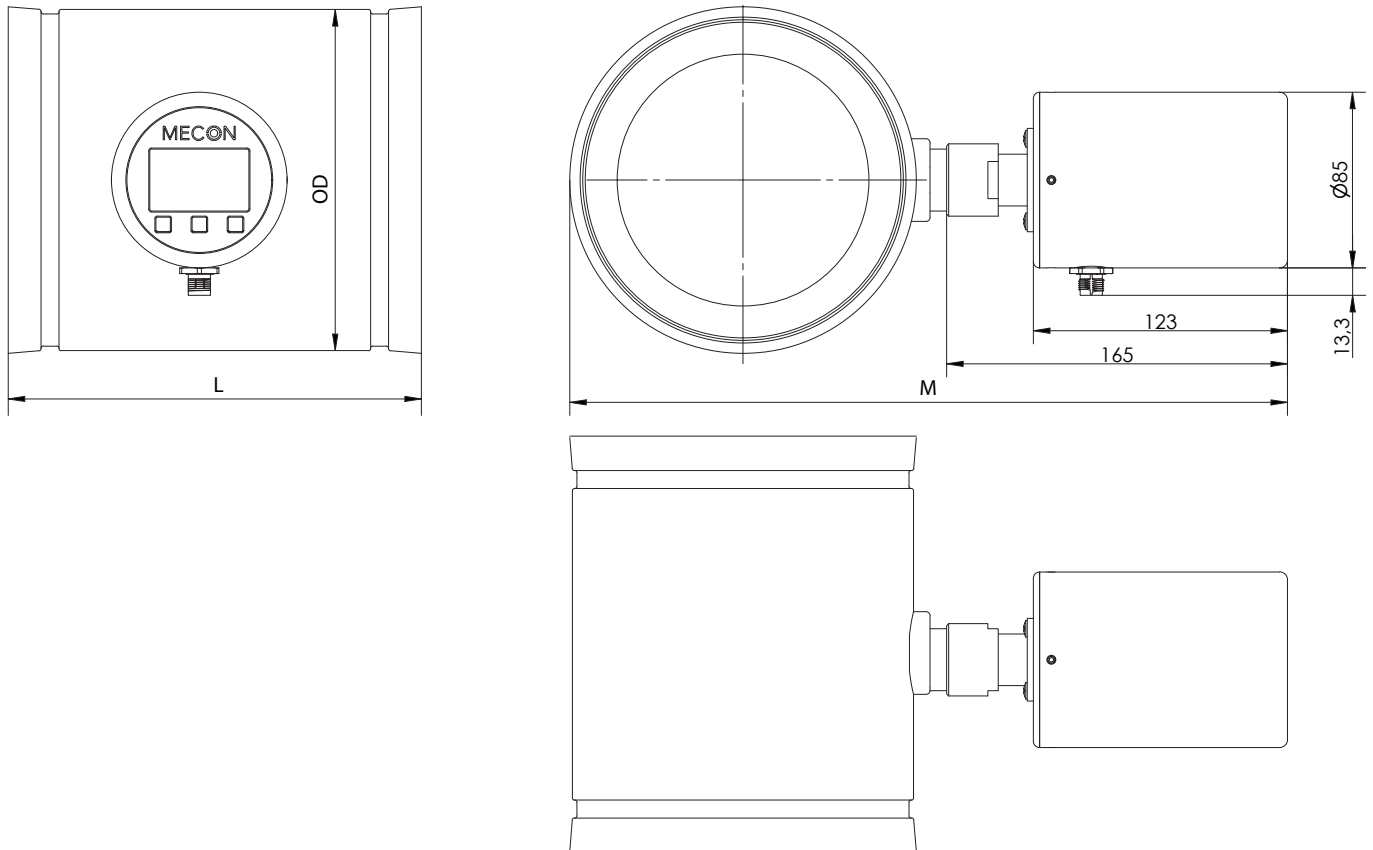
Part Number	Description
TL3D-Connector	Round connector M12 socket for cable mounting, 4-pole
TL3D-Cap	Replacement cap

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### Dimensions



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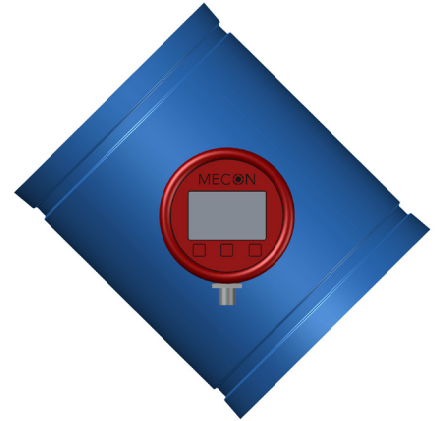
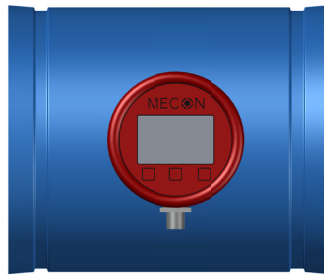
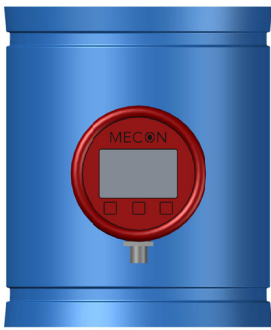


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### Installation, Operation & Maintenance

#### Installation

1. Check that the serial number on the housing and meter are matching.
2. Although the housing may be installed in any position, the meter must be positioned horizontally.



3. Remove the cap and install the meter – tighten by hand.
4. When the meter is not in operation, remove the meter and store. Replace the cap and hand-tighten.

#### Operation

1. Prior to starting the pump, set-up the digital display for the correct flow and orifice size – see operation manual for the display (supplied with the unit).
2. When starting the pump, keep the bypass line control valve partially closed (but open minimum 30%) and then open the control valve fully to avoid damage to the meter.
3. Once the desired constant flow has been achieved, take a reading from the display.
4. After measurement, remove the meter and replace the protective cap.

NOTE: If the flowmeter is to be exposed to pressures in excess of 16 bar during the system hydrostatic test, ensure the cap is installed and not the meter.

#### Maintenance

If the filter becomes clogged then the meter can be returned to the manufacturer directly for cleaning. Contact Viking for further information. The digital display is maintenance-free and has no parts which are required to be cyclically replaced or adjusted.

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