



Application Area: Industry, Chemical Industry

Resolution: 2.5 +/- 1 mm Min. Mounting Length: 200 mm Max. Mounting Length: 1500 mm

TLI

Transmitters of the series XM-825E (XT-825E) provide reliable measurement and control for liquid levels. These are developed from the XM-800E (XT-800E) series with double resolution and a well-tried mechanism. Additionally they can be used as position sensors for vertical displacements. The transmitters are built according to user-specific requirements. They have proved successful in a wide range of different industrial applications as well as in many special applications.

Depending on liquid level or displacement a magnet equipped float actuates some reed switches located in the stem. The transmitter works according to the principle of a voltage divider. Output signals can be a voltage (XM-825E) or a current (XT-825E) proportional to the float displacement. Such signals can be processed to drive analog or digital displays, give optical or acoustical alarms, or be fed into computers.

No 3.1 certificate available

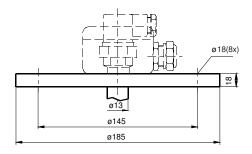


Tli E/10.2015 Modifications reserved



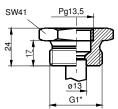
Mounting

TLI



Flange DN65/PN16 EN1092-1 *

- BCCC 316/316L/316Ti
- · other flanges on request Min. DN65 od. 2 1/2" ANSI



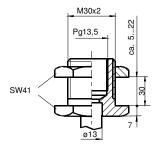
Tank screw fixing 1"

• TC 1 316/316L/316Ti



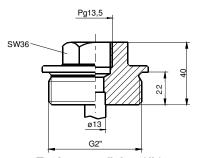
Inside screw fixing 1/2"

• EC 1/2 316/316L/316Ti



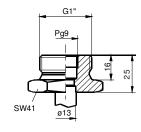
Bulkhead fitting

• AC 316/316L/316Ti



Tank screw fixing 2" *

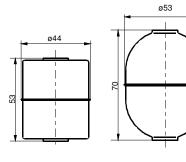
• TC 2 316/316L/316Ti

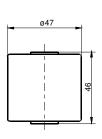


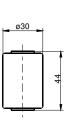
Inside screw fixing 1"

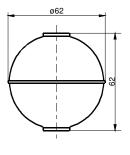
• EC 1 316/316L/316Ti

Floats









Materi	aı
Мах. р	ressure
Media	temperature

• C44 * 316/316L/316Ti 12 bar

• C53 * 316/316L/316Ti 20bar

• N47 * Buna N 10bar

• N30 * Buna N 10bar

• Ti62 Titanium 15 bar

-20 °C...150 °C

-20 °C...80 °C H₂0 -20 °C...150 °C -20 °C...100 °C Öl -20 °C...80 °C H₂0 -20 °C...100 °C Öl

-20 °C...150 °C

Minimum density of 0.85 g/cm³ the liquid

density = 1 g/cm^3

0.75 g/cm³ 0.65 g/cm3 0.65 g/cm³

0.60 g/cm3

Type

Immersion depth at 35 +/- 2mm

40 +/- 2mm

19 +/- 2mm

25 +/- 2mm

32 +/- 2 mm

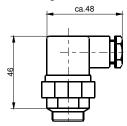
www.weka-ag.ch; info@weka-ag.ch

^{*} Versions with protection tube (damping tube) on request

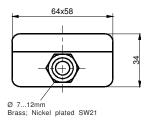


Electrical connection XM-825E (3-wire)

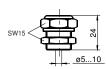
· S Plug connector



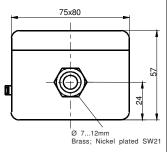
K6 Junction box



· P Cable gland

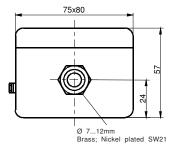


K11 Junction box

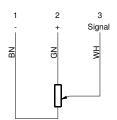


Electrical connection XT-825E (2-wire)

K11 Junction box



Wiring diagram XM-825E with voltage signal



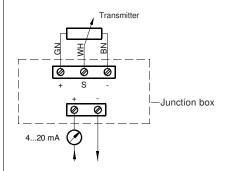
Note

Because of the internal wiring of the transmitter, the output voltage and not the transmitter resistance has to be measured when a test is taken.

Function

Operation of the transmitter in connection with signal processing units; In this mode of operation voltage supply is provided by the processing units. Operation of the transmitter in connection with other signal processing units: 10...24 V DC, stabilized.

Wiring diagram XT-825E with current signal



Function

The mode of operation of the transmitter XT-825E is basically the same as the mode of operation of the XM-825E. The XT-825E provides an output signal of 4...20 mA (2-wire technique; current sink) not a voltage. The same technical data is valid for mounting elements, floats and dimensions as for the transmitter XM-825E. The electrical wiring is made via the junction box which houses the signal converter.

Technical data

Media temperature Supply signal Internal resistance Enclosure

depending on float 10...24 V DC 700 Ω ...2800 ΩIP 65

Technical data

Ambient temperature 0 °C...60 °C Supply signal 10...40 V DC

Output signal 4...20 mA; current sink

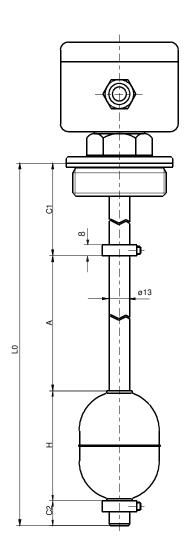
Max. load 100 Ω (10 V)

1.2 kΩ (40 V)

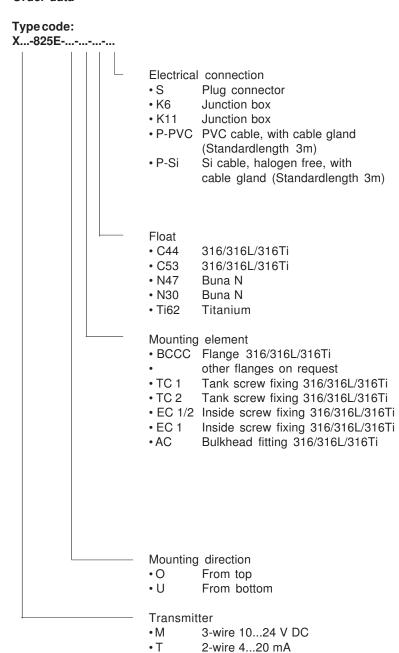
Max. current 20 mA IP 65 Enclosure







Order data



Dimensions

LO	Mounting length (LO max. = 1500 mm)
Α	Indication length (float displacement)

C1 Upper deadline

Lower deadline min. 10 mm C2

Float height

LO = A + C1 + C2 + H

For versions with an upper set collar:

C1 = minimum measure* + set collar thickness (8mm)

* minimum measure see below mounting elements

Typical order data XM-825E-O-TC2-C53-K11 (example)

2-wire 4...20 mA

LO	Mounting length 740 mm
A	Indication length 600 mm
	<u> </u>
C1	Upper deadline 60 mm
C2	Lower deadline 10 mm
0	Top mounting
TC 2	Tank screw 2" 316/316L/316Ti

C53 Float H=70 mm