

Eshteal Arak Industrial Engineering Company is the only manufacturer of high-capacity rotary cup burners in the country, and these burners are used by all boiler companies in the country. Among the unique products produced by this company are power valves that are designed for saturated and superheated steam lines. This product was produced for the first time in the country in 2014 in the Mobarake steel complex and at a pressure of 70 bar It has been used successfully Eshteal Arak Industrial Engineering Company has been modernizing its production lines since 2003 and is currently equipped with more than 98 machines, 61 of which are CNC lathes and milling centers (referred to at the end), stepped into the field of producing products with modern sophisticated technology It should be mentioned that this company has succeeded in obtaining the knowledge-based badge on burners and valves during two consecutive periods, and in order to enhance the brand and satisfy customers, the necessary standards such as ISIRI 7595, ISIRI 7594, ISO 3834, ISO 9001:2015 and implemented 5S



The level transmitters ELC are used for continuous level monitoring in steam boilers and (pressurized) hot-water installations or in condensate and feed water tanks. The level transmitter can be used in electrically conductive and non-conductive fluids. The level transmitter ELC works according to the capacitance measurement principle and translates the level changes into a level-dependent current signal of 4-20 mA, with the length of the electrode rod determining the measuring range. The level transmitter is installed inside steam boilers, vessels or in an external level pot Service pressure : PN 40, 32 bar at 238°C

Level transmitter ELC



ESHTEAL ARAK

INDUSTRIAL ENGINEERING CO.
Manufacturer of burners, valves
and precision tools for steam boilers

☎ 5
09908136277 (sales)
09912709038 (after sales)

📠 34131217

✉ eshteal.arak@gmail.com
eshteal.commerce@gmail.com

📷 eshtealarak

📍 Factory: Hadid St-Haji Abad Industrial Zone 7th km
of Qom Road-Arak-Iran

📍 Head office: 4th floor-No.3 Apartment Asef Vaziri
alley southern Bahar St Taleghani St-Tehran-Iran

level transmitter

Type ELC 19-1

Description

The level transmitter works according to the capacitance measurement principle and translates the level changes into a level-dependent current signal of 4-20 mA, with the length of the electrode rod determining the measuring range.

The level transmitter is installed inside steam boilers, vessels or in an external level pot. If the equipment is installed inside the boiler or vessel, a protection tube provided on side ensures correct functioning.



Applications

The level transmitter ELC 19-1 is used for continuous level monitoring in steam boilers and (pressurized) hot-water installations or in condensate and feed water tanks.

Technical data

- **Service pressure**
PN 40, 32 bar at 238°C
- **Mechanical connection**
Screwed G ¾" A, ISO 228
- **Materials**
Screw-in body: 1.4571, X6CrNiMoTi17-12-2
Electrode rod insulation: PTFE
Terminal box: 3.2161 G AlSi8Cu3
- **Electronic circuit board supply voltage**
24 V DC
- **Power consumption**
3 VA at 24 V DC

● **Fuse**

External slow-blow 0.5 A

Internal thermal fuse $T_{max} = 102^{\circ}C$

● **Sensitivity of response**

Range 1: Water $\geq 20 \mu S/cm$

Range 2: Water $\geq 0.5 \mu S/cm$

Range 3: Fuel oil EL, dielectric constant ϵ_r 2, 3

● **Output**

Actual value output 4 – 20 mA, level proportional.

Technical data - continued -

● **Indicators and adjusters**

2 red LEDs for signalling "Level 0 %" within the measuring range.

2 orange LEDs for signalling "Level 100 %" within the measuring range,

6 green LED for signalling "Level between 0 % and 100%" of measuring range.

1 Selector switch for measuring range

2 adjustable resistors for small-percentage adjustment of the measuring range.

2 terminal lugs for voltage measurement.

● **Max. Admissible ambient temperature**

Max. 70 °C

● **Storage and transport temperature**

- 40 to + 80 °C

Dimension

Dimensions (approx.) in mm

Approvals: E.P.I.L Co

Acc. to: IEC 61000-4-2

IEC 61000-4-3

IEC 61000-4-8

IEC 60068-2-78

IEC 60068-2-1

IEC 60068-2-2

