

AQUACON LF



On-Line supervision of conductivity in pure water

AQUACON LF is the first process conductivity meter type tested by TÜV Nord, suitable for measurement of conductivity in salt-free boiler feed water.

Developed particular for this application, **AQUACON LF** meets the qualification of:

VdTÜV-leaflet „Wasserüberwachung 100“ for equipment with safety function in the meaning of **pressure equipment directive 97/23/EG** date 29.march 1997.

**type-test approval mark
TÜV.WÜL.01-004**

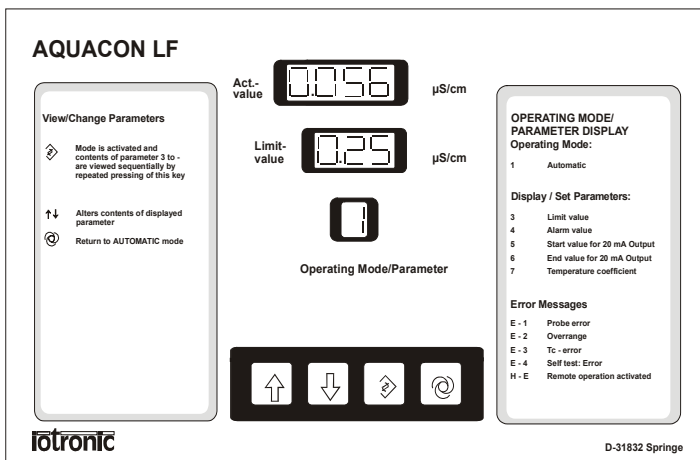
AQUACON LF meets the european pressure equipment directive CE/PED 97-23-EG valid as national law since may 2002



- range : 0 - 9,999 $\mu\text{S}/\text{cm}$
- non linear temperature compensation for pure water application.
- adjustable limit value- and alarmrelays.
- adjustable scale value for recorder output allows legal documentation of analysis result.
- safe to operate by automatic self supervision.
- reliable and less maintenance operation.
- high level security by automatic supervision of conductivity with proof tested device !

Working principle

The process conductivity meter AQUACON LF works with galvanic method for pure water application (range 0 - 9,999 $\mu\text{S}/\text{cm}$). The probe belonging to it has two additional electrodes to perform self supervision.



In collaboration with the measuring amplifier the microprocessor constant checks the probe for broken circuit, short circuit, and impurification. In case of faulty probe the display shows an error signal and the alarm-relay is deactivated. The AQUACON LF detects dry run of the probe by itself. The AQUACON LF probe is constructed to let the probe dry run in case of break in water supply. Additionally, the microprocessor carries out a self-test of the measuring amplifier all 23 hours.

The AQUACON LF has a non linear automatic temperature compensation for pure water application. Alternatively, a linear compensation with selectable temperature coefficient can be carried out. The actual value of conductivity is shown on a four-digit display. The nominal value is shown on another three-digit display.

Easy operation

- alteration of nominal value and other adjustment in display via keyboard.
- automatic routine operation including self-test.
- System is delivered ready for operation.

AQUACON LF Order-No.. 690 6100 01

Technical Data

Current output	potential free, 0/4 - 20 mA, max.load 500 Ohm
Display	4-Digit LED for result, 3-Digit LED for Limit, 1-Digit LED for program
Relays	Alarm relay, Limit relay (potential-free 230 V 3 A)
External Switching	potential free, 18 V DC, approx 4 mA
Power supply	115 or 230 V -- 50/ 60 Hz (see label for power level)
Power Consumption	max. 16 VA
Dimensions	570 x 350 x 160 mm (H x B x D)
Protection	IP 65 (transmitter housing)
Connections	Inline terminals 1,5 mm ²
Temperature	5° bis 45°C,
Range	0 - 9,999 $\mu\text{S}/\text{cm}$
Resolution	0,002(5) $\mu\text{S}/\text{cm}$



Bescheinigung Certificate

über die Zuerkennung eines Bauteil-
kennzeichens für for the grant of a type-test approval
mark in respect of

Wasserüberwachungseinrichtung

Aufgrund einer Bauteilprüfung - In virtue of a type-test -
Prüfbericht des test report by

TÜV Hannover/Sachsen-Anhalt vom 15./18./20.10.2001

wird dem Antragsteller, der Firma the applicant, the company

**lotronic Elektrogerätebau GmbH
D-21832 Springe**

zuerkannt das Bauteilkennzeichen-Nr. is granted the type-test approval mark No.

TÜV . WÜL . 01 – 004

für for

Messkammer mit konduktiver Leitfähigkeitssonde und Steuergerät

Typ type

AQUACON LF

Die Zuerkennung erfolgt in Anwendung der The adjudication is made pursuant to

VdTÜV-Merkblatt „Wasserüberwachung 100“ (Entwurf)

Sie ist bis zum **31.10.2006** It expires on **2006-10-31**
befristet und kann widerrufen werden. and is revocable.

Die Bescheinigung vom --- The certificate dated ---
wird hierdurch ersetzt. is replaced herewith.

Hinweis: Der Hersteller oder Importeur ist ver-
pflichtet, den zuständigen Sachverständigen zu
beauftragen, Armaturen aus der laufenden Ferti-
gung auf Übereinstimmung mit dem Baumuster
einmal jährlich stichprobenweise zu überprüfen.

Note: The manufacturer or importer is obliged
to the competent Authorized Inspector to conduct
a random check on the accessories concerning
identity to the type once a year. The accessories
have to be taken from the current production.

Essen, 26. November 2001
17/k 4.19.45

Verband der
Technischen Überwachungs-Vereine e. V.
Geschäftsbereich Anlagentechnik, Arbeitswelt
- Zertifizierungen und Registrierungen -


Baumann