

# SF6 LEAKCHECK P1 XTL



## APPLICATIONS

- SF6 leak testing and measurement in high voltage switchgear
- Breathing apparatus testing
- Medical device testing
- Leak integrity assurance to ultra low levels on equipment containing (H)CFC's in medical, refrigeration and air conditioning units

## FEATURES

- Ultra high sensitivity - detects leaks down to 1.0E-8 ml/sec - 0,001 g/a\*
- 0,5 second rise and clear down
- Wireless Handgun
- Inductive Charging
- Docking Station
- C4-FN compatible
- Display units cc/sec, gm/yr and ppm
- Lightweight 2 button handgun
- Large leaks present no contamination problems
- Robust trolley style Peli case for max. protection
- No training required - switch on and go

\*HighSense option



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## SF6 LEAKCHECK P1 XTL

Unique multicoloured **Projektor Alarm** displays to the operators sightline a clear visual warning when a leak is detected



### THE NEW WIRELESS LEAK DETECTOR for SF6 and gasmixtures with C4-FN.

SF6 LEAKCHECK P1 XTL is a truly portable, precise and highly sensitive instrument for determining SF6 leaks built in a trolley style Peli Protector Case including a docking station for the wireless Handgun.

Its field proven detection principle, the NIC detector, gives SF6 LEAKCHECK P1 XTL the following properties:

- High sensitivity for Leakrates e.g. cc/s - g/year - mbarL/s
- High sensitivity for Gas Concentrations e.g. ppm
- Perfectly immune against even 100% SF6.

A few seconds after exposure to high gas concentrations, the instrument recovers without any loss in sensitivity, accuracy, or response time.

- Very fast response and recovery, no warm-up or stabilisation periods needed. Approx. 20 seconds after power up, P1 XTL is ready to go.

Maximum reliability and ultimate ease of use were the main guidelines in the development of P1 XTL. All vital parameters, such as the sample flow rate, are permanently monitored and regulated. Normal operation is a matter of switch on and go.

By default, the unit powers up in what is called the „Search Mode“, featuring a fast responding Bar Graph on the Handgun Display. This effectively prevents the operator to overlook smaller leaks, which would otherwise cause only a marginal response.

### TECHNICAL DATA

<b>Detection principle</b> NIC (Negative Ion Capture)	
<b>Detects</b>	SF6 and gasmixtures with C4-FN
<b>Sensitivity</b>	Standard 1.0E-7 cc/s - 1,0 ppm
	0,01 g/a (SF6)
	HIGHsens 1.0E-8 cc/s - 0,1 ppm
	0,001 g/a (SF6)
<b>Response time t90</b>	approx. 0,5 s
<b>Response time t10</b>	approx. 0,5 s
<b>Alarm</b>	Selectable "Handgun Vibration" / "Audio" / "LED-Projection"
<b>Audio</b>	Frequency / repeat rate coupled to leak rate, condition signals
<b>Display</b>	2.8" Touch Display on handset
<b>Self diagnostics</b>	Sample flow, sensor condition, battery condition, hardware fault
<b>Battery</b>	Handgun Li-ion, inductive charge at docking station
<b>Storage conditions</b>	-10°C ... + 60°C
<b>Operating temperature</b>	0°C ... 50°C
<b>Power supply</b>	100 - 240V 50/60Hz
<b>Dimension</b>	Console 420x240x470 mm (H,D,W)
	Handgun 300x105x90 mm (H,D,W)
<b>Weight</b>	Handgun 750 g
	Console 9,8 kg



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## SF6 LEAKCHECK P1 XTL



Once a leak has been localised, the push of a button puts the instrument into „Measuring Mode“ if desired. In this mode the handgun display is switched to numerical reading. It is now possible to precisely measure the leak, with the leak rate displayed on the handgun screen.

All components subject to wear are placed in the exchangeable SmartSensor. It can be replaced within seconds, while all the rest of the system requires virtually no maintenance over long periods. System availability is thus significantly improved. SF6 LEAKCHECK P1 XTL comes with 3 pre-calibrated smartSensors.

Power supply is by an integrated self seeking AC adaptor. Its 100 ... 240V, 50/60Hz range makes it suitable for world wide use.

If desired, a standby mode can be selected to power down the instrument completely or partially, saving battery power and/or sensor lifetime. Standby entry and exit are controlled by a motion sensor in the handgun, with auto recovery when the handgun is picked up.

The new P1 XTL features an integrated docking station for the wireless handgun. It offers a comfortable and secure resting place for the handgun while recharging it.

### PRODUCT CONTENTS

1 pc.	SF6 LEAKCHECK P1 XT Wireless Handgun
1 pc.	SF6 LEAKCHECK P1 XTL Console with Docking Station for Handgun
3 pcs.	P1 SmartSensor, pre-calibrated
1 pc.	Mains lead
1 pc.	Instruction manual
1 pc.	Calibration certificate

Delivery time	tba
Warranty	12 months



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