OBSOLETE

High-precision measuring instrument for determining the concentration of SF_6 gas
Model GA65

SF_6 Tracer

Applications

- Leak test for the final inspection of SF_6 gas-filled equipment
- Monitoring of the concentration of SF_6 gas in the ambient air of enclosed spaces

Special features

- High-precision and reproducible measurements in the ppb range
- Fast response time
- Simple operation and long service intervals
- No consumables, e.g. flush gas, are required
- Expendable by multiplexer for up to 24 measuring points

Leak rate measuring instrument for SF_6 gas, model GA65

Description

The model GA65 measuring instrument has been specifically designed for measuring small concentrations of SF_6 gas. The quantitative measurement of SF_6 gas in the air is carried out reliably and reproducibly even at the smallest quantities.

The used technology is based on the photo-acoustic infrared spectroscopy. This physical and non-destructive measuring principle achieves a very high accuracy with a detection rate of 6 ppb_v.

Humidity is compensated and thus does not influence the measuring result.

Cyclic self tests guarantee the reliability and functionality of the instrument. It is recommended to recalibrate the instrument once a year.

The leak rate measuring instrument is easy to use and can be operated via control keys at the front of the housing or via an extensive PC software with a graphic user interface.

Both operating modes allow for the setting of the parameters (e.g. duration of the sampling), the starting of a measurement (manually or automatically), the display of the concentration of SF_6 gas in real time or the sending of the values to the downstream control software.

OBSOLETE

Specifications

Measuring principle
Photo-acoustic infrared spectroscopy

Detection limit
6 ppb_v or 6 x 10^{-9} ml/s
(at a flow rate of 60 ml/min)

Measuring range
6 ... 60,000 ppb_v

Resolution
1 ppb_v

Sensor characteristics
Temperature and pressure compensated
Humidity: Cross compensated up to 80 % and 31 °C

Reproducibility
1 %

Response time t_{90}
approx. 15 seconds

Permissible temperature ranges
Operation: 5 ... 40 °C
Storage: -25 ... +55 °C

Service interval
Once a year

Warning signals
2 settable alarm values
Audible and visible

Electrical output
2 relays (settable alarm values)

Data storage
Available (internal storage space)
Software and connection cable included in delivery

Voltage supply
AC 100 ... 240 V, 45 ... 67 Hz, 70 W

Interface
IEEE-488 and RS-232

Dimensions
W x H x D: 395 x 175 x 300 mm

Weight
9 kg

Ingress protection
IP 20

Ordering information
The description of the model is sufficient.

WIKA Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. (+49) 9372/132-0
Fax (+49) 9372/132-406
E-mail info@wika.de
www.wika.de

04/2013 GB

OBSOLETE

Drucksachenänderung/Modification notice

Dokument/Document	**Data sheet SP 62.13**
Sprache/Language	**GB**
Ausgabe/Version	**04/2013**
Dateiname/File name	**DS_SP6213_GB**

Beiliegend erhalten Sie die aktuelle Ausgabe der oben genannten Technischen Dokumentation, die vorherige Ausgabe wird hiermit ungültig./Enclosed please find the current version of the above mentioned document. The previous edition becomes invalid.

Folgende Änderungen wurden durchgeführt/Following modifications have been made:

Seite Page	Änderungen (Text, Fotos, Zeichnungen) Modifications (text, photo, drawings)
1-2	Completely reworked

Ablagehinweis für den WIKA Gesamtkatalog, Rubrik
Sorting information for WIKA Full Catalogue, section

Bitte teilen Sie Ihren Mitarbeitern diese Änderungen mit.
Please forward these modifications to your colleagues.

Bearbeitet/Modified			Geprüft/Checked			Freigegeben/Approved		
5.4.2013	MS	E. Lungavita	5.4.2013	SF6	O.Rieger	5.4.2013	MS	N. Kroth

Alle gültigen Technischen Dokumentationen finden Sie online unter www.wika.de
All valid Technical Documentation can be found at www.wika.de

OBSOLETE

History data sheet SP 62.15 GB

Sprache: GB
Seitenzahl: 3
Erstellt von: E. Lungavita
Abt.: MS
am: 5.4.2013
Ausgabe: 04/2013

Version	Pages	Changes	Person	Date	Release date
a		see folder (in Archive)			07/2010
b		see folder (in Archive)			07/2010
c	1-3	Completely reworked	E. Lungavita	5.4.2013	04/2013