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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
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Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
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Россия (495)268-04-70

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Казахстан (772)734-952-31

Сургут (3462)77-98-35
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Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

<https://inficon.nt-rt.ru> || inb@nt-rt.ru

Газоанализатор QUANTUS LP100



Quantus LP100 Gas Analyzer

RELIABLE GAS ANALYSIS FOR CORROSIVE AND
NON-CORROSIVE PROCESS ENVIRONMENTS

REAL-TIME GAS ANALYSIS AND ENDPOINT WITH LOW COST OF OWNERSHIP IN AGGRESSIVE ENVIRONMENTS

The INFICON Quantus LP100 Gas Analyzer provides real-time leak and endpoint detection for your critical process environments. Many processes are sensitive to trace amounts of contamination and as technological advances push processes to their limits, controlling contamination has become even more critical. Quantus LP100 is a gas analyzer that is designed to instantly react to small changes in sensitive process environments so that scrap is minimized and yields are improved.

HIGH PRESSURE GAS ANALYSIS WITHOUT PUMPS

The primary advantage of a plasma assisted optical emission gas analyzer is that it does not require expensive pumping systems to provide gas analysis at higher operating pressures. With its operating range of 10 mTorr to 1 Torr, Quantus LP100 is compatible with most processes on either the process chamber or the chamber pump line. The gas analysis techniques used by Quantus LP100 provide high sensitivity contamination, leak and endpoint detection (down to the low ppm range) for critical processes.

With its unique sensor design, engineered to withstand corrosive etch environments, Quantus LP100 provides real-time endpoint capabilities for most etch processes. Quantus can analyze process gas chemistries and utilize unique

FEATURES AT A GLANCE

- Convenient field-replaceable plasma cell
- Easy installation using a standard KF25 connection
- Low maintenance
- Excellent detection limits down to low ppm levels
- Operating range of 10 mTorr to 1 Torr
- Longterm reliability: no pumps required
- Low cost of ownership
- Fast sampling (10 Hz maximum)
- Small footprint (H x W x L): 87 x 151 x 241 mm (3.4 x 5.9 x 9.5 in.)
- Support by experienced field-trained INFICON Engineers

univariate and multivariate algorithms to precisely determine endpoint conditions. At endpoint, the system can then create local alarms, send a signal to a higher level control system or even communicate directly with the process tool. Quantus, unlike traditional endpoint systems, provides real-time contamination detection in parallel to its endpoint duties. Additionally, Quantus LP100 generates its own plasma which allows it to operate in processes that are not plasma assisted.

EASY INSTALLATION

Quantus LP100 easily connects to the system using a standard KF25 port. Depending upon pressure characteristics, the sensor can be installed on either a process chamber or in a pumping line. With its small footprint of only (H x W x L) 87 x 151 x 241 mm (3.4 x 5.9 x 9.5 in.), Quantus LP100 will not interfere with day-to-day operations that occur in and around a process tool.

SPECIFICATIONS

Performance

Technology	Optical Emission Spectroscopy using proprietary and integrated ICP microplasma, spectrometer, and RF power supply
Spectrometer performance	200 to 850 nanometer wavelengths (UV-VIS) 16-bit full-scale resolution, 2048 pixels
Exposure time	Minimum of 1 ms
Sampling frequency	Maximum of 10 Hz
Detection limit	To low ppm levels (application dependent)

Gas Sampling Interface

Operating pressure ¹⁾	0.01 to 1 Torr (application dependent)
Vacuum fitting	KF25
Maximum flange temperature	80°C
Serviceability	Sensor cell is field replaceable

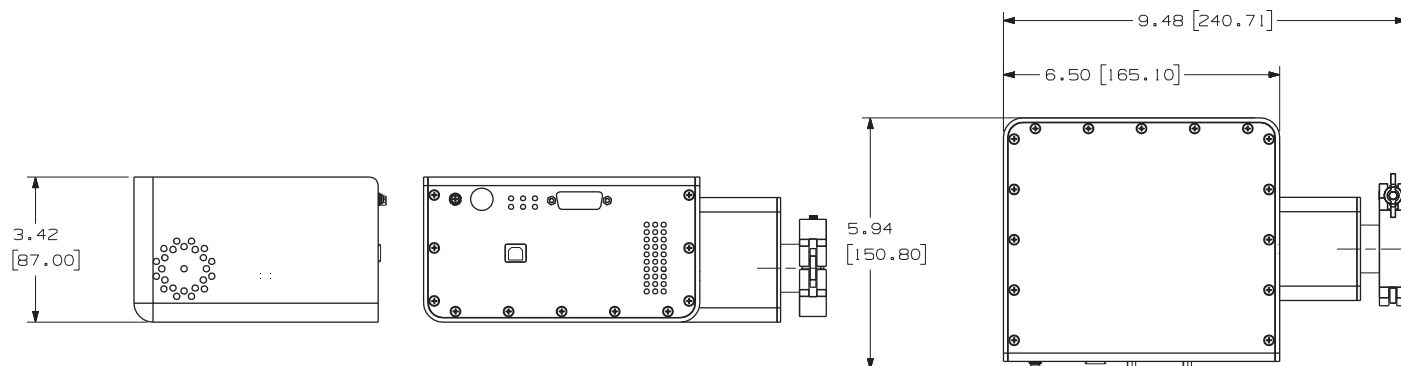
Facilities

Operating temperature range	0 to 50°C (non-condensing, Sensor cell 80°C)
Power requirements	24 V (dc) @ 2.5A (AC/DC converter available)
Isolation valve	Optional

Approximate Dimensions and Weights

Dimensions (H x W x L)	87 x 151 x 241 mm (3.4 x 5.9 x 9.5 in.)
Weight	2.7 kg (5.9 lb.)

1) Specified operating pressure range is for argon. Other gases may have a more restricted operating pressure range.



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