



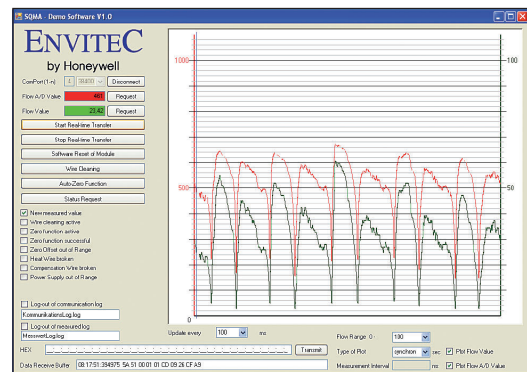
OEM flow module for measurement of mass flow in respiratory applications
with hot-wire anemometer sensor SpiroQuant A+

OEM flow module SpiroQuant MAX

OEM flow module SpiroQuant MAX

Features

- Constant temperature mode
- RS-232 communication
- Real flow value
- 10bit A/D converter
- Auto-zero function
- Wire cleaning of hot-wire flow sensor
- Development kit with evaluation software
(Windows XP, Vista, 7)



The new OEM flow module SpiroQuant MAX is designed to work with EnviteC's hot-wire flow sensor SpiroQuant A+. The module drives the hot-wire sensor and determines the gas flow in standard liter per minute directly via RS232 and a separate flow calculation is not necessary in this case. The compensation wire in the flow sensor is thereby used to compensate the influence of the gas temperature on the measured signal.

A development kit including evaluation software is available for evaluation and integration of flow module.

Technical data

Measurement range:	0 to 160 standard liter per minute (SLPM)
Accuracy:	± 5% from measured value between 0 to 160 l/min with flow sensor SpiroQuant A+
Supply voltage:	5 V DC ± 4% (For 5 V version min. 4.8 V is required)
Current consumption:	70 to 250 mA (depending on gas flow)
Working principle:	Constant temperature mode
Interface:	RS-232 with level converter (EIA/TIA-232 compatible)
Data rate:	38400 Baud, Data bit 8, Stop bit 1, Parity none, Handshake none
External wire cleaning:	TTL compatible H level (approx. 250 ms pulse length)
Digital I/O (optional):	TTL compatible signal, user specific level
AD conversion:	Resolution: 10 bit
Conversion time:	approx. 5 ms
Maximal data rate:	200 samples per second
Dimensions:	37 x 41 mm (L x W)
Maximal height:	8 mm
Weight:	approx. 10 g
Mounting holes:	4 x Ø 3.2 mm
Connectors:	Board supply + communication: MicroMatch 6-pole Flow sensor: Molex 5-pole

Order Information

Part number

OEM-Module SpiroQuant MAX	1001487
Cable flow sensor	1001475
Box flow sensors SpiroQuant A+	1000470
Development Kit SpiroQuant MAX	1000488 (incl. module, sensor cable, flow sensor, USB interface, USB cable and evaluation software)

EnviteC-Wismar GmbH a Honeywell Company

Alter Holzhafen 18, 23966 Wismar, Germany
Phone: +49 (0) 3841 / 360-1
Phone: +49 (0) 3841 / 360-200 Sales
Fax: +49 (0) 3841 / 360-222

Internet:
www.envitec.com

E-mail:
info@envitec.com

ENVITEC
by Honeywell