Product catalogus

QUANTIFIED
sensor technology

Product Catalog 2025-7

Software

Integration into InSight

Through the InSight platform developed by Quantified, you can visualize and/or download sensor data, create sensor groups, and set up push notifications. There are 3 subscription types: Green, Silver and API-only:

<u>Q-Insight Green</u>
- up to 100 FireFlies
- up to 10 users
- 9 months of data storage

<u>Q-Insight Silver</u>
- up to 500 FireFlies
- up to 25 users
- up to 500 alarm events or notifications per day
- 24 months of data storage (extensions available on request)

<u>API-only</u>
- up to 500 FireFlies
- 2 weeks of data storage (extension available on request)
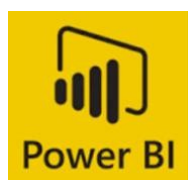
Quantified Mobile App

The Quantified App allows you to visualize sensor data on your phone or tablet. Using the links below, you can download the app for your Apple or Android device for free.

[Download the Quantified App in the App Store (iPhone)](#) [Download the Quantified app on Google Play (Android)](#)

Integration with other platforms

It is also possible to link your Quantified sensors to a data platform developed by one of our collaboration partners. To this end, you can use the Application Programming Interface (API). We can provide this connection for you: please feel free to contact us to discuss the possibilities.

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Hardware

Starter kit	Article number
	FF02SK

The Starter kit includes a complete wireless sensor system, and is an inexpensive introduction to Quantified. The kit includes:

– 2 FireFly sensors with Temperature, Relative Humidity and PAR (FF02)
– 1 gateway with Ethernet and 4G
– 2 Smart Clips of your choice: FFSCang, FFSCMagnetic or FFSCMSC
– 1 USB charger (FFCh)+ 1 reset magnet (with cord)
– 1 year access to Insight data platform (Incl. API link)
– 1 year data subscription for connectivity (Incl. 4G SIM)

You can add external sensors from the catalog to the starter kit as desired.

FireFly sensor node	Article number
	FF02

The FireFly sensor is a wireless sensor module with rechargeable battery in a robust housing.

The sensor configuration can be assembled as desired. A variety of external sensors and actuators can be connected via the connector.

FF02 sensor node		
dimensions and weight	**protection type**	**measuring interval**
l x w x h= 35 x 40 x 110 mm³; l x w x h= 1.4 x 1.6 x 4.3 inches³ weight 127 g / 4.5 ounce	IP67 connector with cap	5 minutes
LoRa frequencies		**battery charging interval**
868 MHz (EU, Africa) 915 MHz (Australia, Americas) 869.0 - 869.4MHz (Morocco)	915MHz (South Korea)	>12 months (depending on the measurement frequency)

FF02 selection options		
air temperature	**relative humidity**	
operating range: -15..+65 °C / 5.. 149 °F	operating range: 20..90% RH	accuracy: ±1.5% RH
accuracy: ±0.5 °C / °F	operating range: 90..100% RH	accuracy: ±2.5% RH
resolution: 0.01 °C / °F	resolution: 0.01%	
GPS	**PAR light**	**barometric pressure**
accuracy: ±5 meters /± 16.5 Foot	±5% (calibrated for sunlight)	operating range: 0..500 kPa
		accuracy: ±0.5 kPa
		resolution: 0.01 kPa

Poseidon WET sensor to be connected to FireFly	**Article number** FFWETPos 1-, 2- or 3-way

The Poseidon WET sensor measures permittivity[*], electro-conductivity (EC), and temperature of soil or substrate. Three versions are available: with a single, double, or triple measuring head. The (multi-) Poseidon should be connected to a FireFly.

[*]The relationship between permittivity and Volumetric Water Content (VWC) strongly depends on the soil type. We recommend to irri- or fertigation based on measured permittivity. The Poseidon can be calibrated by Quantified for VWC in combination with a specific substrate or soil type.

relative permittivity (-)	EC	temperature
working range: 0..82	operating range: 0 ..20 dS/m	working range: -40..+80 °C / -40..+176 °F
accuracy:< 3%	accuracy: ±3%	Accuracy: ±0.5 °C / °F
resolution: 1%	resolution: 10 dS/m	resolution: 0.1 °C / °F
measuring probe	**measuring principle**	**protection type**
Stainless steel; length: 7 cm; width: 2.5 cm	Time Domain Reflectometry (TDR), 50 MHz	IP67
		cable length
		2 m / 79 Inch per probe

Smart Gutter
connectable to FireFly

EC measurement per 5ml, no dilution curve!

Article number

FFSG
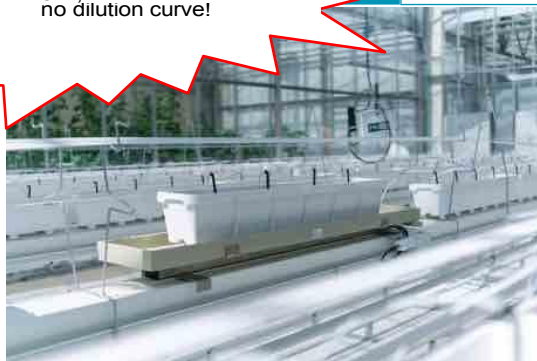
The Smart Gutter enables optimization of fertigation for cultivation in substrate slabs or multiple small pots (<20cm diameter). By measuring substrate weight, drain volume, drain EC (per 5ml!) and drain temperature every five minutes, the grower gains insight into plant evaporation and root climate. For high wire cultivation the Smart Gutter can be combined with hanging scales (see: crop weight monitor) for weighing the crop wires. With this

This creates a very accurate weight image and the picking weight can also be monitored.

FFSG		
drain volume	**drain EC**	**drain temperature**
maximum flow rate: 1 ml/s	operating range: 0..20 dS/m	operating range: -40..+80 °C / -40..+176 °F
accuracy: ±5%	accuracy: ±3%	accuracy: ±0.5 °C / °F
resolution: 5 ml/0.17 oz	resolution: 10 dS/m	resolution: 0.1 °C / °F
measuring range weight	**temperature range weight**	**standard dimensions and weight**
max. load: 40 kg / 88 lbs	accurate range: -10..+40 °C -14..+104 °F	inner size channel: l x w x h: 1350× 200× 42 mm^3
accuracy: ±0.04% of max. load + ±0.02% of max. load per 10°C / °F	operating range: -20..+60 °C -4..+140 °F	inner size foot brackets: 218 mm
resolution: 1 g / 0.035 ounce		weight: 8 kg / 17.6 lbs
	material	**protection type**
	stainless steel and polypropylene	IP 61

Crop weight monitor	Article number
to be connected to FireFly	FFCropMon

The crop weight monitor very accurately measures the weight of high wire plants such as tomatoes and cucumbers. This gives growers valuable and accurate insight into the daily growth and growth course of their crops and picking weight. There are options for weighing: 1 plant, 3 plants, and 3 plants with 2 branches each. The sensor connects to a FireFly.

FFCropMon		
Weight	**dimensions**	**protection type**
max. load: 40 kg / 88 lbs	L: 1.35m	IP61
accuracy: ±0.04% of max. load+ ±0.02% of max. load per 10°C / °F		
resolution: 1 g / 0.035 ounce		
connector cable		
length 2 m / 79 inches		

Smart Gutter single pot
connectable to FireFly

Article number

FFSGsinglepot

EC measurement per 5ml, no dilution curve!

The Smart Gutter enables optimization of fertigation for cultivation in pots (<310mm diameter). By measuring substrate weight, drain volume, drain EC and drain temperature every five minutes, the grower gains insight into plant evaporation and root climate. This provides a very accurate weight picture and also the picking weight can be followed.

FFSG		
drain volume	**drain EC**	**drain temperature**
maximum flow rate: 1 ml/s	working range: 0..20 dS/m	working range: -40..+80 °C / -40..+176 °F
accuracy: ±5%	accuracy: ±3%	accuracy: ±0.5 °C / °F
resolution: 5 ml/0.17 oz	resolution: 10 dS/m	resolution: 0.1 °C / °F
measuring range weight	**temperature range weight**	**standard dimensions and weight**
max. load: 36 kg / 90 lbs	accurate range: -10..+40 °C -14..+104 °F	diameter max. 310mm
accuracy: ±0.04% of max. load + ±0.02% of max. load per 10°C / °F	operating range: -20..+60 °C -4..+140 °F	Weight: 1.2 kg
resolution: 1 g / 0.035 ounce		weight: 8 kg / 17.6 lbs
	material	**protection type**
	PVC	IP 61

Drain/Dripper sensor (flow/volume, EC and temperature)	Article number
to pair with FireFly	FFDSECT
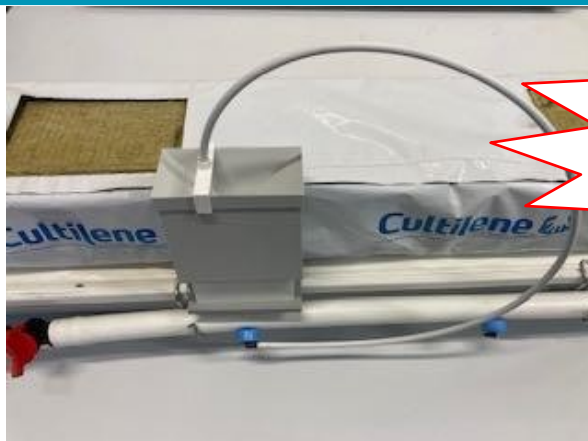
EC measurement per 5ml, no dilution curve!

The sensor uses tipping-bucket (spoon) technology and measures: dripper or drain volume (flow rate), drain EC and drain temperature. The sensor connects to a FireFly.

FFDLab		
flow	**dimensions**	**protection type**
max. flow rate: 1 ml/s	l x w x h= 40 x 100 x 140 mm^3	IP61
accuracy: ±5%	weight: 190 g / 6.7 ounce	
resolution: 5 ml/0.17 oz		
EC	**temperature**	**dimensions**
drain / dripper EC	drain / dripper temperature	l x w x h= 40 x 125 x 120 mm^3 1.6 x 4.9 x 4.7 inch^3
working range: 0..20 dS/m	working range: -40..+80 °C -40..+176 °F	
accuracy: ±3%	accuracy: ±0.5 °C / °F	weight: 255 g / 9 ounce
resolution: 10 dS/m	resolution: 0.1 °C / °F	
connector cable		
length 0.5 m / 19.7 inches		

Drain/Dripper sensor (flow/volume)	Article number
connectable to FireFly	FFDS

The sensor uses tipping-bucket (spoon) technology and measures dripper or drain volume (flow). The sensor connects to a FireFly.

FFDF		
flow	**dimensions**	**protection type**
max. flow rate: 1 ml/s / 0.031 oz/s	l x w x h= 40 x 100 x 100 mm^3 1.6 x 3.94 x 3.94 inch^3	IP61
accuracy: ±5%	weight: 110 g / 3.9 ounce	
resolution: 5 ml / 0.17 ml		
connector cable		
length 0.5 m / 19.7 inches		

Carbon Dioxide (CO_2) Sensor	Article number
to be connected to FireFly	FFCO2

This sensor measures the concentration of CO_2 in the ambient air. The measured concentration is compensated for changes in temperature and air pressure. There are 2 settings possible: periodic "automatic calibration" or manual calibration. In the automatic calibration option, the sensor sets the lowest measured value equal to the CO_2 content of the outside air is. However, the CO_2 content of outdoor air varies by location and time of day, and greenhouse CO_2 levels can become much lower than in outdoor air due to CO_2 uptake during plant growth.

With the optional calibration kit, the sensor can easily be self-calibrated by the user with a calibration gas. This provides highly accurate CO_2 measurements.

FFCO$_2$ sensor (with automatic calibration or manual calibration mode)

dimensions and weight	protection type	
(ℓ x Ø): 63 mm x 20 mm, 40 gr.	IP44	
(ℓ x Ø): 2.48 inch x 079 inch, 0.14 ounce		

CO_2 concentration		
accuracy	conditions	notes
±50 ppm+ 2.5	400 .. 1000 ppm	-
±50 ppm+ 3 %	1001 .. 2000 ppm	-
±50 ppm+ 5 %	2001 .. 5000 ppm	-
measuring range: 0 ... 5000 ppm / resolution: 1 ppm		-
repeatability: ±10 ppm / time constant: 60 s		typical

operating range	
operating temperature: -10 ... +60 °C	-
humidity: 0 ... 95 % RH	without condensation
air pressure: 700 ... 1200 hPa	-

Calibration tool option		
Calibration gas	Calibration tool	dimensions
1000ppm	Aluminium holder with pressure reducer and hose	dimensions (ℓ x Ø): 63 mm x 20 mm

H-Frame scale (6, 8, 12, 24, 40, 80 kg)	Article number
to be connected to FireFly	FFHFS

The H-frame scale is a stainless steel scale developed to optimize watering in crops in trays and small to medium pots. The scale is available in various sizes and measuring ranges. The scale is connected to a FireFly and can be tared by
resetting the FireFly wirelessly.

FFHFS		
measuring range	temperature range weight	standard dimensions
Options: 6, 8, 12, 24, 40 or 80 kg / 13.2, 17.6, 26.5, 53, 88.2, 176	precise range: -10..+40 °C / 14..104 °F	l× w× h: 520× 560× 45 mm l× w× h: 20.5× 22× 1.8 mm
accuracy: ±0.04% of measuring range	operating range: -20..+60 °C / -4..140 °F	*Other sizes on request*
resolution: 1 g / 0.035 oz		Weight 4000 g / 8.8 lbs
		protection type
		IP 65

Standing scale (3, 6, 10, 30, 60, 90 kg)
connectable to FireFly

Article number

FFSS 3 ..90

m< 30 kg

m≥ 30 kg

The upright scale can be used for weighing medium to large pots, to support irrigation and/or biomass determination. The scale comes in a square or round design, with a measuring range of 3, 6, 10, 30, 60 or 90 kg. The scale
is connected to a FireFly and can be tared by resetting the FireFly wirelessly.

FFSS		
options measuring range	**working temperature**	**dimensions**
square: 10, 20 kg round: 30, 60, 90 kg	accurate range: -10..+40 °C Temperature dependence mass measurement within this range: 0.05% decrease per °C increase	<30kg: l× w× h: 250× 250× 50 mm^3 weight: 1400 g >30kg: h× d: 80× 300 mm^{2}weight: 2100 g
accuracy: ±0.04% of measuring range	operating range: -20..+60 °C	
resolution: 1 g		
connector cable		**protection type**
length 0.5 m		IP65

Macro Solar Chimney (ventilated measuring with FireFly)	Article number
	FFMSC

The Macro Solar Chimney is a passively ventilated housing for the FireFly. In environments with high irradiance (direct growth or sunlight), this housing provides more accurate measurement of temperature and relative air humidity. When using the Macro Solar Chimney, the PAR measurement is not usable because the light sensor is shielded.

For mounting the FireFly in the Macro Solar Chimney, the Smart Clip (FFSCMSC) can be used.

FFMSC		
	dimensions and weight	mounting
	h× d: 500 x 125 mm; 250 g	tie-wrap

Solar Chimney (ventilated TrH sensor)	Article number
to be connected to FireFly	FFSC

The Solar Chimney is designed for temperature and relative humidity measurements in the presence of high (solar) radiation. The radiation generates a natural airflow through the chimney allowing ventilated air temperature and relative humidity. The FireFly platform sensor is connected via connector cable and provides data transmission. There are several mounting options to choose from. Use the Solar Chimney SubZero model for measurements below 0 °C (upon request).

FFSC		
air temperature	relative humidity	
operating range: 0..65 °C	operating range: 20..90%	accuracy: ±1.5%
accuracy: ±0.4 °C	operating range: 90..100%	accuracy: ±2.5%
resolution: 0.01°C	resolution: 0.01%	
connector cable	dimensions and weight	protection type
0.5 m	height 550 mm; diam. 80 mm; 225 g	IP61
mounting options		
FFSC A: string for hook mounting	FFSC B: block for pole mount (40-75 mm)	FFSC C: clip for wire mounting (2 mm) or rod (5 -7 mm)

Infrared Thermometer	Article number
to pair with FireFly	FFIRT
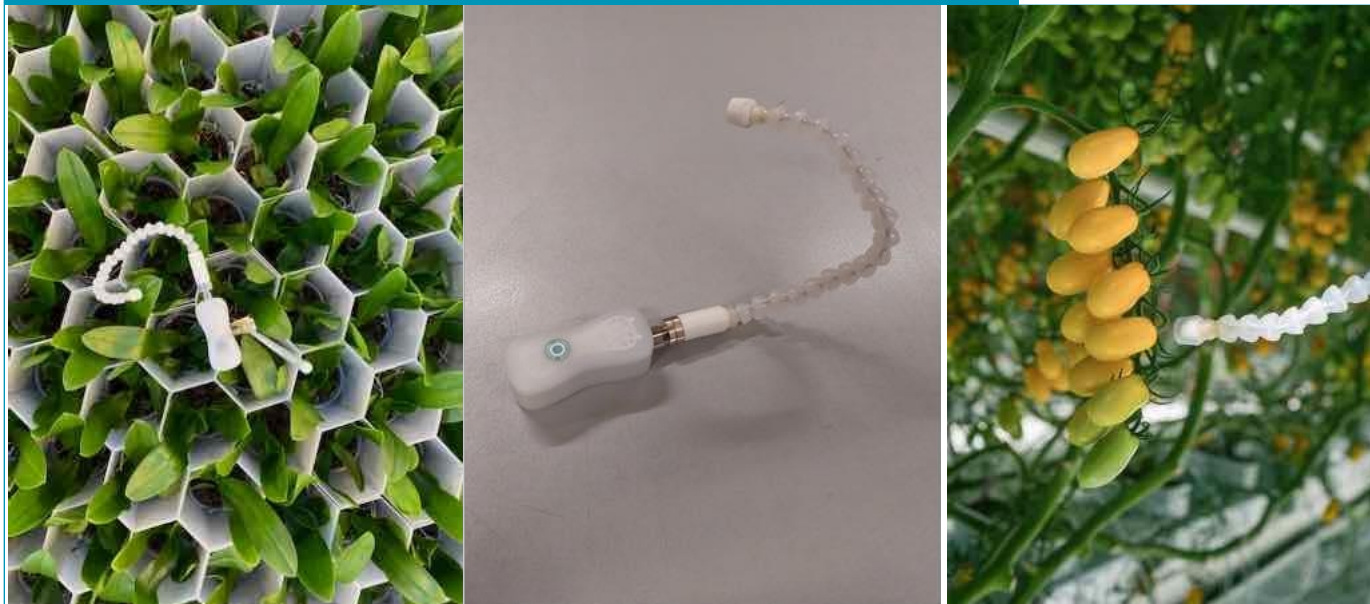
The Infrared Thermometer allows non-contact measurements of surface temperature of, for example, leaves or fruits. The sensor is used to detect plant stress (VPD).

FFIRT		
IR temperature		
accuracy	**object temperature**	**Note**
±0.3 °C / °F	+22..+40 °C / 72.. 104 °F	At working
±0.5 °C / °F	0.. +60 °C / 32.. 140 °F	temperature 0. +60 °C
±2.0 °C / °F	-70.. +200 °C / -94.. 392 °F	32.. 140 °F
measuring range: -70 ... +200 °C / -94.. 392 °F		-
resolution: 0.02 °C / °F		-
viewing angle: 35°		at 50% signal
distance per spot diameter: 1 : 1.59		
object emissivity: 1.00		-
spectral response: 550 ... 1400 nm		-
working temperature		
-15 .. +60 °C / 32.. 140 °F		
dimensions & weight	**protection type**	
l x Ø = 350 mm x 20 mm / 13.8 inch x 0.8 inch bending radius: ≥ 25 mm / 1 inch weight: 85 g / 3 ounce	IP51	

Hanging scale (5, 10, 30 or 50 kg)	Article number
attachable to FireFly	FFSH 5..to..50

The hanging scale can be used for weighing hanging objects such as cultivation gutters or crop wires. The scale is available with various weight ranges. The scale connects to a FireFly and can be tared by wirelessly
reset.

FFSH		
options measuring range	**working temperature**	**dimensions**
5, 10, 30, 50, 100 kg lbs	accurate range: -10..+40 °C	height: 135 mm / 5.3 inch (incl. hook and eye)
accuracy: ±0.07% of measuring range	operating range: -20..+60 °C	
resolution: 1 g /		
connector cable		**protection type**
2,5 m / 8,5 feet		IP65

Liquid gas pressure sensor (to be connected to the FireFly)	Article number
	FFPS

The pressure sensor measures line pressure in, for example, CO2, air or water lines. The pressure sensor is mounted with a straight male thread. The pressure sensor is connected to a FireFly.

pressure	mechanical connection	dimensions
measuring range: 0..10 bar	process connection: G ½ B	height: 68 mm
accuracy: ±2 %	material: stainless steel	diameter: 29 mm
pressure limit: 20 bar		aperture: 3.5 mm
connector cable	**Temperature**	**protection type**
length 0.5 m	working range:0..+80 °C (environment and medium)	IP67

Drain/Dripper XXL sensor	Article number
to be connected to FireFly	FFDSXXL

The drain/dripper sensor is a tipping-bucket sensor for measuring large drain volumes. The sensor connects to a FireFly.

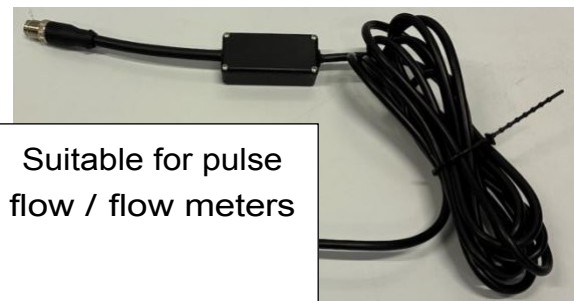| FFDS		
drain / dripper volume	**dimensions**	**protection type**
max flow rate: 25 l/min	L*w*h= 400 x 200 x 360mm^3	IP61
accuracy: 0.5 l/min : -2% 1 l/min : -6% 5 l/min:-10% 10 l/min: -14% 15 l/min : -18% 20 l/min : -20% 25 l/min: -22%	weight: 3100 g	
resolution: 1000 ml		
connector cable		
length +/- 3 m		

| Pulse counter (option: incl flow sensor)	Article number
to be connected to FireFly	FFPuls

Suitable for pulse flow / flow meters

The Water Meter is connected to the FireFly and measures flow in m3.

FF-Flow

Specifications

Dimensions and Weights

Nominal Size mm	40	50	65	80	100	125	150	200	250	300	400	500
Inch	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	16"	20"
L, length (mm)	260	200	200	225	250	250	300	350	450	500	500	500
H, height (mm)	170.5	180.5	190.5	200.5	215	245	277.5	335	398	452	647	784.5
H1, height (mm)	408	347.3	357.3	367.3	377.3	392.3	436.6	466.6	584.5	611.5	731.5	846.5
H2, height (mm)	336	275.3	285.3	295.3	305.3	320.3	364.6	394.6	512.5	539.5	659.5	774.5
W, flange type (mm)	160	170	190	200	230	250	285	340	395	445	600	700
Weight (kg)	13	12	14	16	19	20	39	52	105	120	187	256
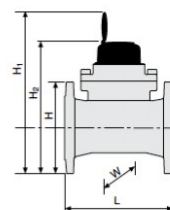
* images are for illustration purpose only

Metrological Data

	Accuracy	mm	40	50	65	80	100	125	150	200	250	300	400	500
		Inch	1½"	2"	2½"	3"	4"	5"	6"	8"	10"	12"	16"	20"
Qmin (Minimum flow), m³/h	±5%		0.5	0.5	0.8	1.3	1.3	2	3.1	5	8	12.5	32	50
Qt (Transitional flow), m³/h	±2%		0.8	0.8	1.3	2	2	3.2	5.0	8.0	12.6	20	51	80
Qn (Permanent flow), m³/h	±2%		25	40	63	63	100	160	250	400	630	1000	1600	2500
Qmax (Peak flow, short time), m³/h	±2%		31	50	79	79	125	200	313	500	788	1250	2000	3125
Q2/Q1			1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Q3/Q1			50	80	80	50	50	80	80	80	80	80	50	50
Kv=Q/√Δp			95	125	170	190	280	380	950	1580	2688	4700	9500	15000
Max. reading, m³			999,999						9,999,999			99,999,999		
Min. reading, liter			1						10			100		
Pressure loss Δp, bar			according to chart											

Flow Curve
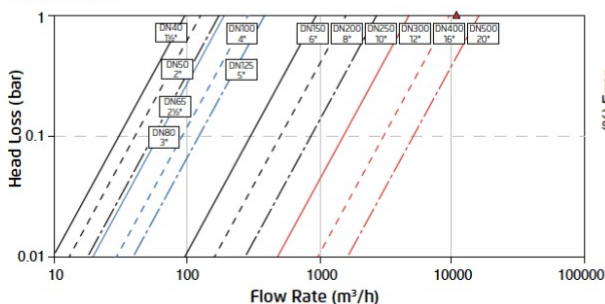
Accuracy Curve
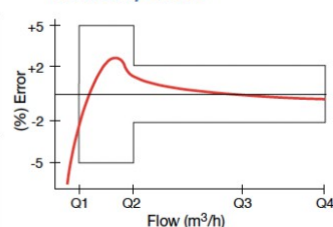
connector cable	work area	protection type
length 0.5 m	0 - 50 C / 0 - 122 F	IP67

Medusa (Directed T, rV sensor)	Article number
to be connected to FireFly	FFMedusa

The Medusa T, rH is designed for targeted temperature and relative humidity measurements at limited space, for example between plants. The sensor head has a passively ventilated head that also provides protection against direct light irradiation.

FFMedusa		
air temperature	**relative humidity**	
operating range: 0..65 °C	operating range: 20..90%	accuracy:　±1.5%
accuracy: ±0.4 °C	operating range: 90..100%	accuracy: ±2.5%
resolution: 0.01°C	resolution: 0.01%	
Bendable part (Loc Line)	**dimensions and weight**	**protection type**
36cm	Length 48cm (total head to connector); diam. 20-25mm; 225g	IP61

Weather station	Article number
	FFWs

The weather station includes a wind gauge, pluviometer, air temperature and relative humidity. Optional features include a GPS module and a stainless steel pole.

air temperature	relative humidity	wind meter
see specifications FireFly (FF)	see specifications FireFly (FF)	wind speed up to 300km/hr wind direction in 8 quadrants
rain gauge	**dimensions**	**protection type**
see rain gauge specifications (FFPL)	Depending on pole length. Overall diameter setup +/- 30cm	IP67

Pluviometer	Article number
to be connected to FireFly	FFPL

The pluviometer consists of a funnel with anti-bird prongs mounted on a "tipping bucket" sensor. The pluviometer measures precipitation in mm, and can be connected to a FireFly.

precipitation	dimensions	
operating range: 0..100 mm/hour	surface area: 200 mm^2	
accuracy: ±2%	height: 350 mm (including anti-bird spikes) diameter: 165 mm	
resolution: 0.2 mm	weight: 550 g	
connector cable		protection type
length 0.5 m		IP67

Sendot photo-efficiency sensor	Article number
to be connected to FireFly	FFSendotEff

The Sendot Photo Efficiency sensor can be linked to the FireFly. This allows the sensor data to be read out digitally in the desired platform (including LetsGrow, Sendot and Ledgnd).

FFSendotEff		
output	dimensions	protection type
photosynthesis efficiency parameters: PAR; F_0; F_{max}	L*w*h 250*60*20 mm	IP61

Gateway (4G, ethernet)	Article number
	Gout

The outdoor 4G gateway receives LoRa messages from the FireFly sensors and sends the data over the Internet to the database. A single gateway is sufficient to process data coming from up to 100 FireFlies. Suitable for outdoor use, this Gout4G gateway connects via a 4G connection and/or an Ethernet cable.

frequency	distance	network options
868 MHz (EU, Africa) 915MHz (Australia, Americas) 869.0 - 869.4 MHz (Morocco) 915MHz (South Korea)	setup indoors: 0.4..1 km outdoors in built-up area: 1..3 km outside open field: 2..10 km	4G, Ethernet
working range temperature	**Working range humidity**	**power supply**
-40..+80 °C	IP67	230 V
network	**accessories supplied**	**protection type**
LTE cat. 4 (4G) and HSPA+ (3G)	LoRa antenna, adapter 230 V, pole mount materials	IP67

Solar powered gateway with battery (4G, Ethernet)	Article number
	GoutSolar

The solar outdoor 4G gateway receives LoRa messages from the FireFly sensors and sends the data over the Internet to the database. A single gateway is sufficient to process data coming from up to 100 FireFlies. Suitable for outdoor use, this GoutSolar gateway connects via a 4G connection and/or an Ethernet cable. The Gateway can be connected to the mains but also has a solar panel and battery to operate without a power connection.

The solar panel and battery provide enough energy to provide a season to year-round connection to be provided depending on the latitude at which the gateway is set up.

frequency	distance	network options
868 MHz (EU, Africa) 915 MHz (Australia, America)	indoor setup: 0.4..1 km outdoor in built-up area: 1..3 km outside open field: 2..10 km	4G

operating range temperature	humidity operating range	electrical power
-20..+50 °C	IP67	230 V
network	**supplied accessories**	**protection type**
4G LTE (CAT 1)/GSM Nano SIM-4FF	LoRa antenna, adapter 230 V, pole mount materials	IP67
solar panel	**battery**	
45W	25000mAh	

Smart clip with integrated magnet	Article number
	FFScMagnetic

Smart clip for fixing the Firefly against steel or iron objects

Foot for fiberglass stick	Article number
	Footrest

Plastic foot (15 x 10 cm) for vertical fixation of a fiberglass pole (6mm diameter). To be used in combination with FFSCang Smart clip. Options for pole position: center of foot or end of foot.

Smart clip for wire or stick mounting

Article number

FFSCang

The clip can be used to mount the FireFly to a wire with a diameter of 2..3.5 mm or a stick with a diameter of 6..7 mm.

Smart clip for vertical mounting

Article number

FFSCMSC

The clip allows the FireFly to be installed with a hook hanging vertically on a wire up to 6 mm in diameter. Among other things, this clip is used for mounting in the Macro Solar Chimney (L x D: 500 x 70 mm[3], L x D: 19.7 x 2.75 inches[3])

Tripod with dragonfly for FireFly	Article number
	FFSTripod

For leveling the FireFly for more accurate derived PAR light measurements.

Smart clip for wall mounting	Article number
	SCWm

This clip allows the FireFly to be attached to a vertical wall. Diameter screw hole 6 mm.

FireFly USB charger	Article number
	FFCh

The battery charger charges the FireFly battery in ~7 hours via a USB adapter. 45 grams.

operating temperature	charging current	protection type
+10..+30 °C	< 0.5 A	IP50

Reset magnet	Article number
	RP

Magnet attached to a Quantified key cord for resetting the FireFly sensor.

White fiberglass stick	Article number
	FGR75

Fiberglass stick to mount the FireFly sensor using a (FFSCang) Smart Clip. Length 0.75 m, diameter 6 mm.

Extension cable	Article number
	EC8m

Extension cable for Gateway antenna (8 meters).

Warranty and service

For the CE declaration, please visit our website. We are convinced of the quality and flawless operation of our products. Therefore, we offer 1.5 years warranty on the hardware, provided the products are handled carefully. See also our fair-use policy and manuals. In the event of a malfunction, we will support you in resolving any issues. If it is found that Quantified is liable for the faulty operation, no charge will be made and the product in question will be replaced free of charge within the warranty period. In all other cases, we charge for time spent based on hourly rates.