HAPPY
MONITORING

HAPPY MONITORING

HAPPY MONITORING represents the most modern and innovative solution dedicated to monitoring. Through the use of GNSS RTK it is possible to set up an cheap and dynamic system, easy to install and always at hand. The collected data can be accessed in real time from your personal area, where a practical interactive chart collects and summarises them.

BENEFITS

Plug & Play
HAPPY GEM-X1x and GEM-X2x are the first plug & play monitoring sensors. They can be put into operation by any employee within seconds. All you need is mobile internet and electricity.

Precision
Thanks to the high RTK data rate in highest precision, unprecedented accuracies can be achieved with a VRS correction service capable of GNSS (RTCM3.x) or HAPPY BASE.

Cloud
All calculation processes are done online on our cloud servers and can be accessed via app and the web. You don't need any application programs on your computer.

Flexibility
HAPPY MONITORING can be operated with 230V mains power or with a 12V photovoltaic system, whereby the power consumption can be reduced to an absolute minimum.
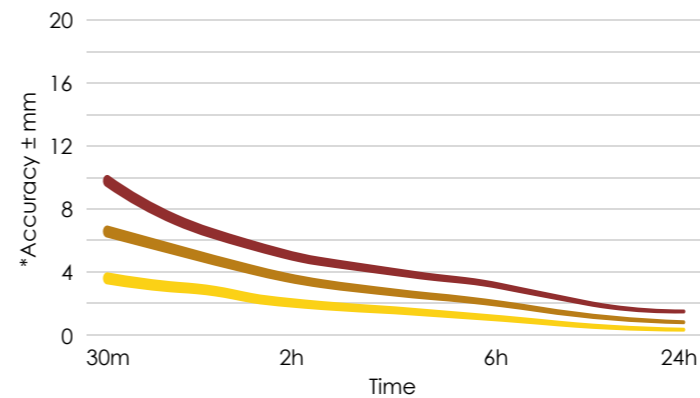
USER MANUAL

1 Connect the system

2 Displaying values online harvests

3 Be Happy!

SMILE AND BE **HAPPY!**

PRECISION

Horizontal accuracy

Accuracy ± mm vs Time (30m, 2h, 6h, 24h)
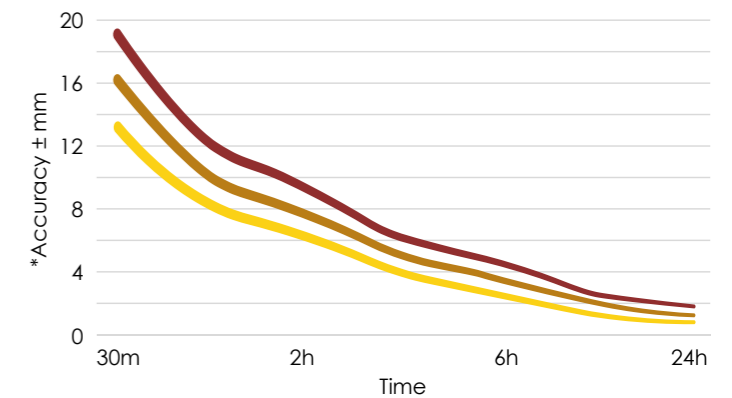
● <500 m baseline   ● <2500 m baseline   ● <5000 m baseline

*Accuracy in good conditions (at least 17 satellites on avarage in 24 hours)

Vertical accuracy

Accuracy ± mm vs Time (30m, 2h, 6h, 24h)

● <500 m baseline   ● <2500 m baseline   ● <5000 m baseline

*Accuracy in good conditions (at least 17 satellites on avarage in 24 hours)

"Feel safe with the innovative system **Happy Monitoring**"

HAPPY GEM-X11

HAPPY GEM-X11 is the high-precision real-time
monitoring system ideal for the most extreme weather conditions.

PRODUCT DESCRIPTION

HAPPY GEM-X11 is the high precision real-time
monitoring system ideal for the most extreme weather
conditions.
It is equipped with multi-frequency receiver with
integrated GPRS and can use corrections from VRS
and HAPPY BASE for maximum accuracy.

BENEFITS

- inclinometer (optional)
- weatherproof
- suitable for long-term monitoring
- plug & play
- cloud-based system
- 230V or photovoltaic panel

TECHNICAL DATA

Horiz. accuracy:	± 1,0 mm / 24 hours *	Weight:	1,9 kg
Vert. accuracy:	± 2,0 mm / 24 hours *	Dimensions:	ø 190 mm - h = 300 mm
Frequency:	multi-frequency sensor (L1, L2, L5)	Power consumption:	ca. 1 Amp
	GPS, GLO, GAL, BD (336 canali)	Connectivity:	integrated modem
Inclinometer:	3 integrated sensors (optional)		

*The accuracy may vary depending on the environment, the duration of the measurement and the roofing. Data are given for medium to
difficult conditions such as trees, horizon coverage or coverage due to individual buildings during 24 hours of measurement.

HAPPY GEM-X20

HAPPY GEM-X20 is the lightweight and compact real-time monitoring system that can be installed in a minute, even in emergency situations.

PRODUCT DESCRIPTION

HAPPY GEM-X20 is the lightweight and compact real-time monitoring system that can be installed in a minute.
It is equipped with multi-frequency receiver and external hotspot and can use corrections from VRS and HAPPY BASE for maximum accuracy.

BENEFITS

- system height of only 10 cm
- complete system of only 1.4 kg
- suitable for emergency monitoring
- plug & play
- cloud-based system
- 230V or photovoltaic panels

TECHNICAL DATA

Horiz. accuracy:	± 1,5 mm / 24 hours *	Weight:	1,4 kg
Vert. accuracy:	± 2,5 mm / 24 hours *	Dimensions:	ø 190 mm - h = 100 mm
Frequency:	multi-frequency sensor (L1, L2, L5) GPS, GLO, GAL, BD (220 canali)	Power consumption:	ca. 1 Amp
		Connectivity:	external hotspot
Inclinometer:	no		

*The accuracy may vary depending on the environment, the duration of the measurement and the roofing. Data are given for medium to difficult conditions such as trees, horizon coverage or coverage due to individual buildings during 24 hours of measurement.

HAPPY
SURVEY