

BeeSMART remote monitoring of beehive activity

BeeSMART is a weight scale connected to the mobile phone network. It gathers beehive weight, outside temperature, time stamp, beehive ID and battery voltage. Data is automatically sent by SMS (text message) twice a day and enables you to know the exact situation of the apiary.

BeeSMART monitors four key indicators:

- Weight increase: honey gathered by the bees
- Bee counter: weight variations brought by bees leaving and returning to the hive
- Weather: rain or sunshine
- Outside temperature

BeeSMART provides multiple benefits for the beekeepers:

- Significant increase in yield and productivity
- Less visits to the apiary meaning more time for the beekeepers and valuable direct savings on transportation costs
- Improved management of beehives and better planning of apiary inspection
- Savings on all round resources from the apiarist



BeeSMART is made of 5 elements:

Sturdy and durable weight scale, microcontroller, GSM/CDMA module, battery and software

User friendly:

Mounting and setting up is extremely simple. The product is delivered "ready to use".

Low cost operation:

SMS technology offers the lowest operating cost. All data are transmitted using SMS through a standard mobile phone network, therefore providing readings anywhere and anytime.

Unperceivable:

BeeSMART fits under the beehive making it invisible and uninteresting to the thieves

Assurance and accuracy:

Built with components specially designed for external use, in rough environments.

Two working modes

On site manual scale mode and automatic SMS transmitting

Keep track of weight evolution

BeeSMART software automatically records 2 weights each day at fixed times and stores values for statistics purposes.

Programmable thresholds with SMS alert

User can program 2 thresholds on the weight to be used as an alarm. When the beehive's weight reaches a threshold, BeeSMART sends an alert by SMS.

Monitors up to four hives

It is possible to monitor four scales using single controller and receive single SMS report

Battery autonomy

Battery autonomy is up to one month but using a solar panel gives you unlimited autonomy. With each SMS battery voltage is reported. The system has low power consumption.

Theft-deterrent system

BeeSMART uses a PIN code that is programmed and provided to the customer only. Should anyone steal the product it is impossible to delete owner GSM number. There is possibility to kill the code by sending SMS to the unit and the product cannot start again.

Reports up to two GSM numbers

Reports to the owner (permanent), and optional phone number (programmable)

Bee safe

No radio emission or frequency pollution only short SMS twice a day

Additional modules:

Sound control of bee hive

Video surveillance

Sound alarm or recorded message that will be played when intruder comes

Ultra sound canon that scares wild animals

Anti-theft IR and magnetic sensors

Alarm report by SMS

Connection for alarm sirene

Developed by professionals in electronics in partnership with beekeepers

Designed for amateur and professional beekeepers

One year warranty

Conclusion

Beehive weight variations are a clear indicator of beehive activity. BeeSMART remote monitoring system allows timely transmission of weight and temperature, and other critical info to the beekeeper. It is a very clever way to manage and to increase productivity of honey by reducing expenses and valuable time

By comparing weight data gathered the previous day with the current weight, the beekeeper can obtain a good indication of the gross honey gathered during the day. It will be instantly clear if the day was good or not. This useful management information will help you to plan the next day, load additional equipment, serve more food, additional hives because the site proves to be very productive, remove or relocate hives if weight declines gradually indicating the bees are feeding on their honey, etc...

Additional technical information:

- Weight measurement range : 5-150 Kg ; Max. Weight: 200Kg ; Resolution: 100g ; Accuracy from 100gr to 500gr
- Power supply : direct Current, range 9V to 36V, Max. peak current 600mA
- External dimensions : 42cm x 36cm x 12cm ; Weight: 8 Kg (including battery)
- Functioning temperature : from -10C to +55C ; Storing temperature : from -15C to +60C Box
- Box protection : weather-proof

Any additional information please contact:

Blancom d.o.o.

Tomislavova 11
10 000 Zagreb
Croatia – Europe

Tel. 00 385 1 3845 100

Fax. 00 385 1 3845 200

sales@bee-smart.net

www.bee-smart.net