First of all,

If you do not have an Android version over 4.2 and you want to see this widget from the lock screen you will need **DoDol Locker (it is free)** or a similar app (look for it in your play store).
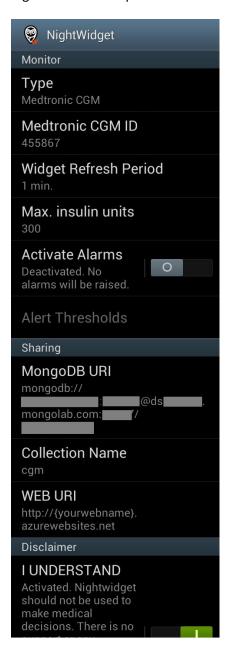
This widget was created to have a direct view of the azure data without accessing the website.
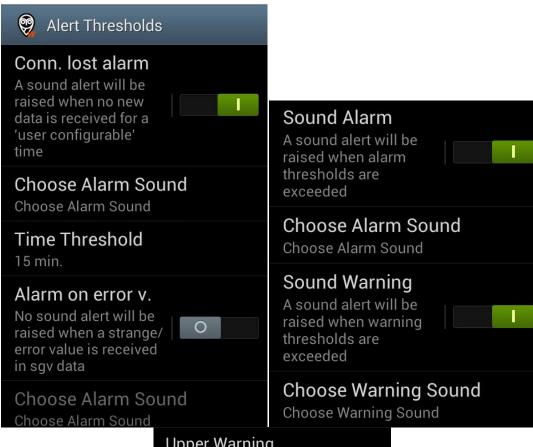
Install

- Download the apk (https://github.com/arbox0/NightWidget/releases) or download the source code and compile your own apk.
- Use your file browser on your phone to install the apk.

Config

The first time you install the widget it will show a preference screen:

1. **Type**. Select your device type:
   a. Medtronic
   b. Dexcom
2. **Medtronic CGM ID**. <u>ONLY if you have selected Medtronic Type</u>. You must set the ID of your Medtronic pump to get access to Medtronic additional info.
   a. **Widget Refresh Period**. The widget will be refreshed each: 1 Min., 2 Min., 3 Min., 4 Min., 5 Min., 10 Min., 15 Min., 20 Min., 30 Min., 60 Min.
3. **Max Insulin Units**. <u>ONLY if you have selected Medtronic Type.</u> You must set capacity of insulin units in the pump.
4. **Activate Alarms**.
   a. **Off**. No alarms will be raised
   b. **On**. Widget alarms are active, a sound alert will be raised on customizable conditions.
5. **Alert Thresholds (Submenu)**. Enabled if Activate Alarms is On, Disabled otherwise.

Alert Thresholds

Conn. lost alarm
A sound alert will be raised when no new data is received for a 'user configurable' time

Choose Alarm Sound
Choose Alarm Sound

Time Threshold
15 min.

Alarm on error v.
No sound alert will be raised when a strange/ error value is received in sgv data

Choose Alarm Sound
Choose Alarm Sound

Sound Alarm
A sound alert will be raised when alarm thresholds are exceeded

Choose Alarm Sound
Choose Alarm Sound

Sound Warning
A sound alert will be raised when warning thresholds are exceeded

Choose Warning Sound
Choose Warning Sound

Upper Warning
140

Lower Warning
80

Upper Alarm
170   Copiado al portapapeles

Lower Alarm
70

a. **Connection Lost Alarm**.
   i. **On**. A sound alert will be raised when no new date is received for a "user configurable" time.
   ii. **Off**. No alert will be raised.
b. **Choose Alarm Sound**. Set the alarm sound track to be played as alarm.
c. **Time Threshold**. Time after which the widget will raise the connection lost alarm.
d. **Alarm on Error value**.
   i. **On**. A sound alert will be raised when a strange/error value is received as sgv data.
   ii. **Off**. No alert will be raised.
e. **Choose Alarm Sound**. Set the alarm sound track to be played as alarm.
f. Sound Alarm.
   i. **On**. A sound alert will be raised when alarm thresholds are exceeded.

ii. **Off**. No alert will be raised.

    g. **Choose Alarm Sound**. Set the alarm sound track to be played as alarm.

    h. **Sound Warning**.

        i. **On**. A sound alert will be raised when warning thresholds are exceeded.

        ii. **Off**. No alert will be raised.

    i. **Choose Warning Sound**. Set the alarm sound track to be played as warning.

    j. **Upper Warning**. Upper Warning Threshold.

    k. **Lower Warning**. Upper Warning Threshold.

    l. **Upper Alarm**. Upper Alarm Threshold.

    m. **Lower Alarm**. Lower Alarm Threshold.

6. **MongoDB URI**. Set the address to your Mongo database (It must be the same address used in Nightscout uploader).

7. **Collection Name**. Set the sgv entries collection name in the mongo data base. (It must be the same collection name used in Nightscout uploader)

8. **WEB URI**. Set the address of your Nightscout web site (azure or other) you will be redirected to this address when the widget icon is pressed.

9. **Disclaimer (I Understand)**.

    a. **On**. You must accept to activate the widget functionalities.

    b. **Off**. The widget is turned off.

Medtronic view

Widget Icon → Sgv Value → trend arrow → Pump battery level → Insulin Left.

Phone battery (uploader) →Time since last value received.

DexCom view

Widget Icon → Sgv Value → trend arrow.

Phone battery (uploader) →Time since last value received.

If you see:

```
125?!  →  Last calibration has failed, value received 125
125!   →   not ideal calibration but good enough, value received 125
```

```
125?  →  last calibration is > 12 hours old, value received 125
125*  →  is calibrating, value received 125
125+  →  is calibrating second stage, value received 125
NC    →    not calibrated
DB?   →   database error??
```