



reddot winner 2022



MODEL TS2602

TRICKLESTAR® ADVANCED KEYBOARD

The TrickleStar® Advanced Keyboard sensor detects when a user is absent and automatically puts the PC to sleep, saving energy and securing the PC.

FEATURES

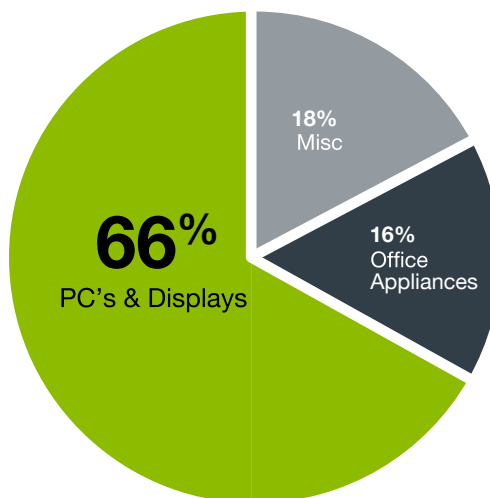
- 105 keys, wired USB membrane style keyboard
- 5.9 ft USB cord with USB Type-C connector
- USB Type-C to USB Type-A adapter included
- Highly accurate radar sensor
- Selectable countdown timer (30 seconds, 3 minutes or 6 minutes)
- Dedicated power button encourages energy saving behaviour
- Compatible with Windows®, Linux® and Mac® operating systems

PCs typically monitor keyboard and mouse inputs to determine user absence. However, monitoring these inputs have become inefficient, outdated methods to determine user absence. With video conferencing and online content consumption gaining popularity, many users have configured longer power management settings (or worse, switched them off completely) to stop their PCs from going to sleep prematurely.

As a result, PCs stay on for far longer than needed, wasting energy and remaining vulnerable to unauthorised access. This situation is made worse with PC setups often having multiple, large, hi-resolution displays which consume more energy, indirectly increasing the energy wastage when left powered on unnecessarily.

Many studies have confirmed this and showed that PCs and displays are frequently left powered on and in an active-use state resulting in significant energy waste. PCs and displays account for approximately two-thirds of power consumption in offices.

In addition to power waste, air-conditioning systems have to work harder to cool the indoor temperature. For every kWh of energy used by office equipments, the air-conditioning requires an additional 0.2 - 0.5 kWh to cool the extra heat generated by office equipments.



HOW IT WORKS

Simple plug and play! The TrickleStar Advanced Keyboard does not require any software installation or configuration. It will not interfere with other existing power management software. It is designed to work independently of other power management tools to ensure energy savings are optimized.

Plug the wired USB Type-C cable from your TrickleStar® Advanced Keyboard directly into an available USB Type-C port on the PC to enjoy this power management solution. If the PC is only available with USB Type-A port, use the supplied USB Type-C to USB Type-A adapter for connection.

Typical energy savings range from 100kWh to >500kWh a year. Energy savings are dependent on 4 elements:

1. Type of PC
2. Type and number of displays connected to PC
3. PC sleep settings
4. User behavior

Energy savings can be calculated using the TrickleStar calculator: calculator.tricklestar.com

PRODUCT WARRANTY

One-year, limited product warranty

APPLICATIONS

Can be used in any PC setup, but particularly well suited to deployment in large organizations with:

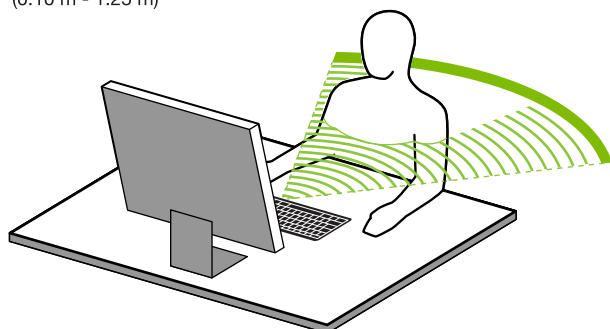
- Large numbers of PCs.
- External displays are used.
- Organizations looking to transition to **Net- Zero Carbon Emissions** and where compliance to **Sustainability Reporting** are key objectives.
- Organizations looking for a cost effective, easy to implement energy efficiency solution that does not disrupt and inconvenience staff.

Particularly well suited for:

- Banking, insurance, finance
- Government / civil service
- Legal / compliance
- Organizations handling sensitive / personally identifiable user data

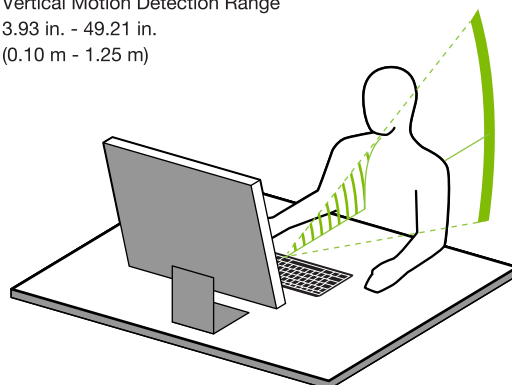
Whether it's a single PC at home or many PCs in an organisation, the TrickleStar® Advanced Keyboard is an ideal solution that can be quickly deployed at scale with minimal technical skill to reduce energy waste from PCs and to enhance PC security.

Horizontal Motion Detection Range
3.93 in. - 49.21 in.
(0.10 m - 1.25 m)



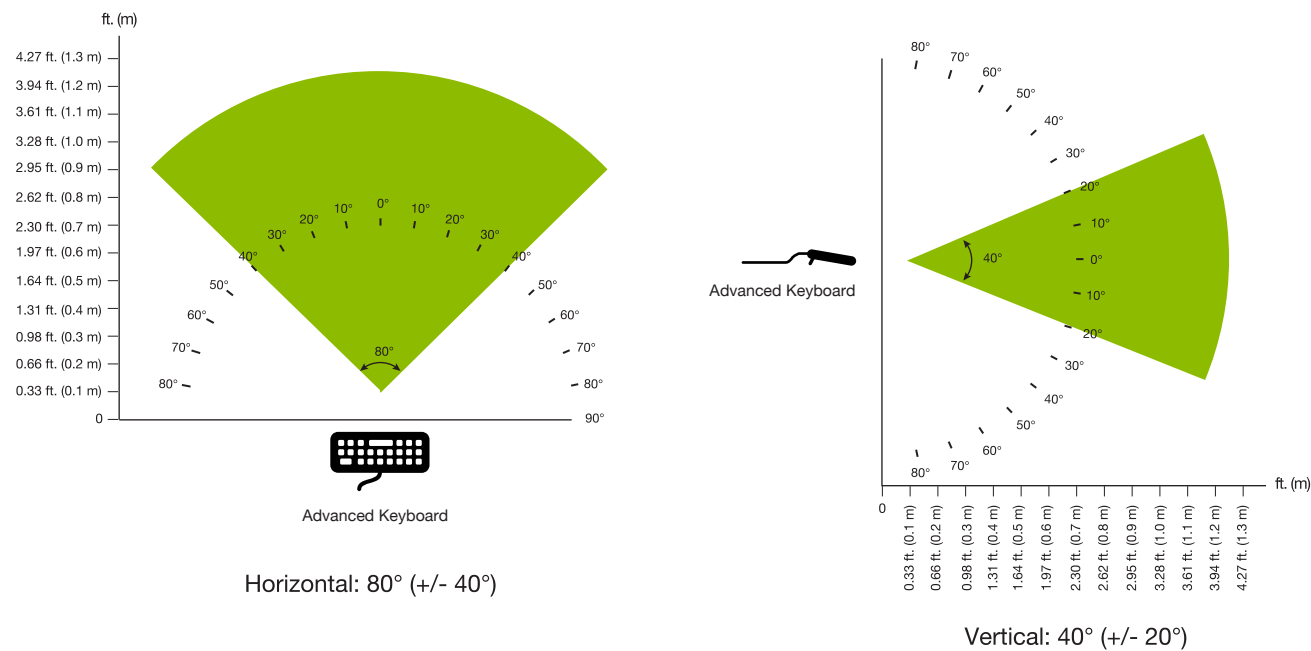
Motion Detection Angle
Horizontal: 80° (+/- 40°)

Vertical Motion Detection Range
3.93 in. - 49.21 in.
(0.10 m - 1.25 m)



Motion Detection Angle
Vertical: 40° (+/- 20°)

RADAR SENSOR DETECTION DIAGRAM



FEATURE DIAGRAM



WHAT'S INCLUDED

- Advanced Keyboard wired USB Type-C Connector
Cable 5.9 ft. (1.8 m)
- USB Type-C to USB Type-A Adapter

ELECTRICAL SPECIFICATIONS

FOR INDOOR USE

Wired USB

Power	: USB 5 V DC
Cord Length	: 5.9 ft. (1.8 m)
Connector	: USB Type-C
Switch Type	: Slide selector
Manual Operation	: Dedicated power button
LED	: Green indicator
Motion Detection Range	: 3.93 in. - 49.21 in. (0.10 m - 1.25 m)
Motion Detection Angle	: Horizontal: 80° (+/- 40°) : Vertical: 40° (+/- 20°)
Detector Type	: Pulsed Coherent Radar
Detector Operating Frequency	: 59.5 – 62.5 GHz
Detector Output EIRP	: -3.5 dbm (peak) : -13.5 dbm (average)
Ambient Operating Temp.	: 32°F - 113°F (0°C - 45°C)
Ambient Storage Temp.	: -40°F - 140°F (-40°C - 60°C)
Operating/Storage Humidity	: 10% - 90% RH (non-condensing)

APPROVALS



Complies with
IMDA Standards
DA108978

Contains FCC ID: 2AQ6KA1001
Contains IC: 24388-A111
CAN ICES-003(B) / NMB-003(B)

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2)
this device must accept any interference received,
including interference that may cause undesired operation.

MODEL INFORMATION

TS2602 Advanced Keyboard (Black) with integrated
Radar Sensor, USB Type-C Connector Cable
(Black), USB Type-C to USB Type-A Adapter
(Black)