

DATA SHEET



Product Code 27-405

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## 1.0 INTRODUCTION

The Tecpro wireless system can be used to establish a full duplex wireless conference group of up to 6 personnel. The group can simultaneously talk and listen to all the other users within the same group. In addition, an un-limited number of listener only belt-packs can be added to the system, useful for personnel who only need to monitor conversation within the group.

The system operates on a licence exempt UHF frequency of 869.525 MHz and uses encrypted digital transmission technology for secure communication. In addition, two alternative frequencies are provided within the 863 – 865 MHz band. Approximate coverage is 300 - 400m depending on the environment.

Major applications are in the theatre, conference, live performance and broadcast markets, though new applications are constantly emerging.

## 2.0 BATTERIES AND CHARGER

### 2.1 Batteries

The batteries are 27-408 Lithium Polymer VARTA EasyPack 3.7V 2600mAh re-chargeable types.

You can re-charge the batteries before they are fully discharged. The batteries are fully re-charged in about 5 hours.

Battery autonomy is about 16 hours. (Average consumption is 200mA - peak consumption is 600mA).

N.B. When stored unused, the batteries keep discharging due to a very small current consumption in the **OFF** mode. Remove the battery from the belt-pack when you stop using it - and check the battery level before re-using.

Only use VARTA EasyPack 3.7V 2600mAh batteries. Use of any other battery or charger may present a risk of fire, explosion, leakage, or other hazard. After use, the batteries should be disposed of in an appropriate recycling centre. They should not be disposed of into the environment.

Do not short-circuit the contacts

Do not open the batteries.

Do not expose the batteries to temperatures above 100 deg C.

### 2.2 Charger

The 27-405 charger is used for re-charging the batteries of the Canford Tecpro TW401 wireless belt-pack system. It can simultaneously re-charge up to 5 batteries and must only be used with VARTA EasyPack Lithium-Polymer, 3.7V re-chargeable batteries.

If the charger is used with any other battery, it could cause that battery to explode.

This charger has been designed for outdoor use. The surrounding temperature when re-charging should be between 5 deg C and 45 deg C. If the temperature is not within this range, re-charging is suspended until the correct temperature has been reached.

Don't use any other power supply for the charger than the external AC/DC converter unit provided with the product.

The charger can be fixed to a wall or placed on a flat surface. An internal fan ensures that the inside of the case is well ventilated.

Do not obstruct the 10 holes on the top panel of the charger on either side of the LEDs or the holes found at the back of the charger

## 2.3 Battery Charger Operation

Connect the power supply unit to the socket found on the side of the case. Connect the power supply unit to a mains supply. When plugged in, the 5 status LEDs at the front of the charger will first turn AMBER, then they will turn off one after another and finally simultaneously flash GREEN.

Place the batteries in the charger (gold contact side down). When the battery has been detected, the corresponding LED turns RED. If the LED does not turn RED, please check that the battery has been correctly positioned (gold contact side down at the back of the compartment).

Charging duration is approximately 5 hours for a 2600mAh battery. Once the battery is fully charged, the corresponding LED turns GREEN.

A battery can be left in the charger - even after it has been completely charged.

## 2.4 LED Indicators

Steady RED	Charging.
Steady GREEN	Battery charged.
Flashing RED	Battery defect, charge has stopped, replace the battery.
Flashing GREEN	No battery installed.
Flashing GREEN and RED alternating	Battery temperature is outside of the authorised range, charging is suspended until the correct temperature has been reached.
Flashing ORANGE	Unrecognised battery, check the battery type.

## 2.5 Battery Charger Specification

AC/DC power unit electrical supply	100 - 240VAC ~ 1.5A to 60Hz
Operating Temperature	5 deg C to 45 deg C
Charge Duration	5 hours (2600mAh battery)
Battery Lifetime	> 500 cycles

## 3.0 ACCESSORIES

27-401	Tecpro TW401 wireless belt-pack
27-403	Tecpro TW403 wireless interface
27-405	Tecpro TW405 Battery charger 5-way
27-406	Tecpro TW406 Lightweight earpiece with boom mic
27-407	Tecpro TW407 Lightweight earpiece with boom mic and on/off switch
27-214	Tecpro SMH214 Single muff headset
27-224	Tecpro DMH224 Dual muff headset
27-408	Tecpro Spare 2600mAh rechargeable battery
27-409	Tecpro Spare belt clip for TW401