

# mymedic II

The mymedic II telehealth monitor is part of an integrated telehealth solution from Tunstall which combines software, hardware and devices specifically designed to provide support to patients in their own homes, helping them to manage their health in the community.

mymedic II monitors are flexible and easy to use and enable care delivery to be tailored to the needs of individual patients. Used in conjunction with the relevant peripheral devices to measure vital signs and health interviews customised to suit their condition, the mymedic II allows patients to monitor their vital signs and symptoms at home, increasing their knowledge and confidence and supporting self-management. The system also provides clinicians with valuable information to support decision making, and can enable more efficient case load management.

## How does it work?

mymedic II features a 7" touchscreen colour display, with clear graphics and large, tactile buttons, with multi-language audio announcements, making it easy to use even by patients with limited dexterity or visual impairment.

At a set time each day, mymedic II wakes up and prompts the user to begin taking their **vital signs** readings using the peripherals selected for them by their clinician, such as **thermometer, blood pressure monitor** and **weighing scales**. This vital signs information can be received via multiple inputs – Bluetooth low energy, infrared and via one of two USB ports.

During the health interview the mymedic II will ask the user a series of questions about their symptoms, and the answers to these questions, along with their vital signs readings, will be rapidly and securely transmitted to a central server at the monitoring centre, either using a standard PSTN landline connection, or via the GSM/3G mobile network.



Here, technical and clinical triage takes place and if a patient's reading trends are outside of the limits individually set for them operators will follow the appropriate local protocol, notifying a clinician if necessary.

Clinicians can then contact the patient to offer advice, schedule a visit or take other action as appropriate. As well as being used as part of a triaged telehealth model, mymedic II can also support track and trend monitoring where readings are collated over time and reviewed by clinicians on a regular basis to identify patterns and inform ongoing care plans.

## Who is it for?

The mymedic II has been designed to support people with long-term conditions, including:

- Chronic Obstructive Pulmonary Disease
- Heart Failure
- Hypertension
- Stroke
- Diabetes
- Obesity
- Asthma

## Telehealth benefits

### Clinical benefit

- Provides flexible, individualised care, tailored to patient's clinical needs
- Encourages self-management
- Aids medication compliance/titration
- Enables early identification of changes to a patient's condition, leading to effective prioritisation and earlier interventions
- Identifies trends over time to aid proactive care planning
- Helps clinicians to make more informed decisions
- Improves QOF scores by enabling collection of data especially from the hard to reach
- Better management of resources and resulting reduction in costs
- Can aid prioritisation of GP workload

### Patient benefits

- Improves confidence due to greater patient and carer/family understanding of condition
- Helps to reduce unplanned emergency admissions, enabling patient to stay at home
- Provides peace of mind that their condition is being closely monitored, reducing anxiety
- Puts patients in control of their own health and wellbeing, making them feel empowered
- Enables earlier intervention, improving quality of life

### Organisational benefits

- Helps to reduce unplanned hospital admissions
- Facilitates early discharge, reducing length of hospital stay and bed days
- Aids reduction in emergency admissions

## mymedic II features and benefits

- **Remote configuration** – interviews and other configurations can be remotely configured allowing healthcare professionals and technical staff to update without visiting the patient
- **Class 1 medical device** – classified according to the Medical Devices Directive, developed under an ISO 13485 medical devices quality system, and compliant with IEC60601-1
- **Multiple inputs** – vital signs information can be received via Bluetooth low energy/ Bluetooth classic, infrared and via one of two USB ports
- **Tailored** – vital sign and health interviews are configured to individual patients' needs, and a range of peripherals can be easily paired to the unit as required
- **Accessible** – 7" colour display screen with clear graphics, large tactile buttons, touchscreen functionality, multi-language audio announcements via clear loudspeaker. Pairs with simple to use, ergonomically designed peripherals
- **Flexible** – option to transmit data via PSTN or GSM/3G mobile network
- **Secure** – all data is N3 hosted
- **Future proof** – developed to accommodate additional future services (e.g. video conferencing)

## Standards

**This device complies with Part 15 of the FCC Rules.**

### Electromagnetic emission

RF emissions, CISPR 11 , Group 2  
RF emissions, CISPR 11 , Class B  
Harmonic emissions, IEC 61000-3-2 , Class B  
Voltage fluctuations/flicker emissions, IEC 61000-3-3

### Electromagnetic immunity

Electrostatic discharge (ESD) IEC 61000-4-2,  $\pm 6$  kV contact,  $\pm 8$  kV air  
Electrical fast, transient/burst, IEC 61000-4-4,  $\pm 2$  kV for power supply lines,  $\pm 1$  kV for input/output lines  
Surge IEC 61000-4-5,  $\pm 1$  kV differential mode,  $\pm 2$  kV common mode  
Voltage dips, shorts interruptions and voltage variations on power supply input lines, IEC 61000-4-11  
Power frequency (50/60 Hz) Magnetic field IEC 61000-4-8, 3 A/m  
Conducted RF, IEC 61000-4-6, 3 Vrms  
Radiated RF, IEC 61000-4-3, 3 V/m

## Part numbers

**Warranty: 2 year return to base warranty.**

Mymedic II PSTN  
P42300/009  
Mymedic II GSM  
P42300/008

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