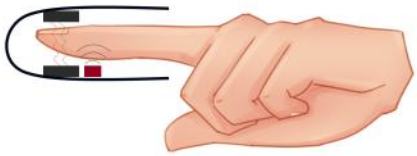
PROJECT NUMBER

23892

10x Faster blood oxygen saturation measurement

Introduction of external pressure modulation in blood oxygen saturation measurement for increased speed and accuracy.
By applying an external modulation of pressure alongside conventional blood oxygen saturation the reliance on the natural heartbeat can be bypassed entirely.

Applications: Oxygen saturation monitoring, primary healthcare, vital sign triage



Features	Benefits
Applying pressure modulation	So that the induced change in pressure can be used to make the measurement, not relying on the natural heartbeat period
Rapid measurement	No longer the necessity to wait for 10s of seconds, allowing time for movement to disrupt the measurement

Features	Benefits
Measurement is reliant on known frequency pressure modulation, not natural heartbeat	This means the modulation is more predictable and the measurement can be more accurate
Ability to identify the arterial waveform	So that measurements associated specifically with arterial blood can be extracted

Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.