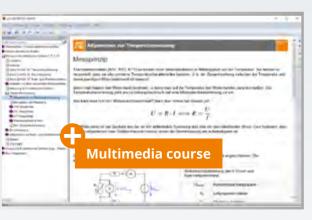


IOT TRAINING SYSTEM











With the "IoT" training system, learners develop internetenabled measuring stations from scratch and independently in class. With the built-in sensors, they can record the CO_2 content, temperature and humidity of the room air. They also learn how to programme a controller with the graphical programming language Ardublock and process the measured data. Guided by e-learning, the users control an LED strip on the basis of the measured data so that it displays a clear coloured quality assessment of the indoor air, similar to a traffic light. In addition, an OLED display is available for showing the measurement data. The built-in WLAN module enables wireless communication between several IoT devices. In this way, you can use the measured values from different measuring points to evaluate the indoor air. In the multimedia course, an IoT application (Internet of Things) is finally realised step by step so that you can access the measurement data from any Internet-enabled device.

Training content

- CO₂, temperature and humidity measurement
- Graphic programming with Ardublock
- Classic programming via the Arduino development environment also available as an option
- Control of an RGB-LED strip
- Control of an OLED display
- Wireless communication
- Integration of sensors as IoT devices

Benefits and technical data

- Immediately applicable as CO, traffic light
- No programming skills required
- Precise and reliable CO₂ measurement with NDIR technology
- Temperature and humidity sensor with high accuracy and fast reaction time
- RGB-LED strip as CO₂ traffic light with 3x18
- individually addressable LEDs
- High-contrast OLED display for displaying multiple measurement values simultaneously
- Integrated WLAN module for wireless communication
- IoT compatibility with preconfigured projects

Order no. CO3620-1C

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