



DU3



Small in size, great in functionality

The DU3 is a low-cost IoT ready Data Unit which features a 2.8" color screen and membrane keypad for a user friendly interaction with the operator. This compact, pre-wired unit allows a quick and straightforward connection of any textile production machine type.

The embedded IoT broker allows direct access from any remote location or external IT application to all information available in the DU3.

Functions

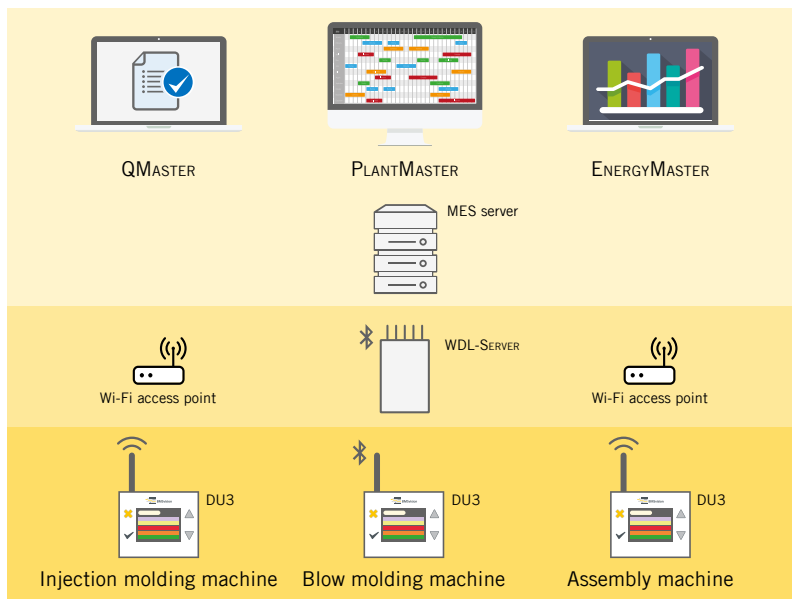
- Manual entry of down time reasons
- Display production information: OEE, KPIs, efficiencies, meters produced ...
- Display planning information: actual job status, next jobs planned ...
- Energy monitoring

(all functions are subject to licensing)

Features

- Direct access to all pages
- Wireless (Bluetooth class 1 or Wi-Fi) connection to the central system
- Remotely operable from any device that has an HTML 5 browser with JavaScript
- Continued operation and machine monitoring in case of network or server failure (optional)
- On screen language selection and Asian languages supported
- Customizable screens using standard HTML and JavaScript

Machine connection configurations



One DU3 per machine

All DU3 inputs/output are available for each machine. The DU3 connects to the MES server:

- Wireless via Bluetooth with the WDL-SERVER
- Via Wi-Fi with a regular wireless access point

Technical specifications

Display and keyboard

- 2.8" color LCD (58 x 43 mm)
- QVGA: 320 x 240 pixels
- 4 keys

Housing

- Size: 110 x 87 x 36 mm (W x H x D)
- Weight: 160 g (without cable)

Power

- 24 Vdc, maximum 5 W
- Counter retention at power failure

Input/outputs for machine connections

- 8 multifunctional digital inputs
 - Stop reason input
 - Hardware counter maximum 10 kHz
 - One length counter (AB encoder)
 - 12/24 V level
- 1 open collector transistor output (needs an external relay)

Communication with MES server

- Bluetooth (WDL)
 - Class 1
 - Maximum 32 DU3 per WDL-SERVER
- Wi-Fi (WLAN)
 - IEEE 802.11bgn
 - MQTT ready
 - Number of DU3 per access point depends on the quality of the access point

Ingress protection rating

- IP43 (objects > 1mm, spraying water)
- The DU3 does not have a fan, nor ventilation holes.

Environment

- Operating temperature range: 0 to 50°C
- Relative humidity: 20 to 80% non-condensing

Options

- Backup & recovery function allowing a minimum of 24 hours local data storage in case of server or network failure

Part numbers

- A9011811: DU3 with 10 m cable
- A9011812: DU3 with 20 m cable
- A901182: DU3 configuration set (optional)
- B557261: Power supply 90-264 Vac / 120-370 Vdc input, 24 Vdc output, maximum 10 W

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- QUALIMASTER: fabric inspection and optimized cutting
- ENERGYMASTER: energy monitoring system
- SPINMASTER: for spinning plants
- FINIMASTER: for textile finishing plants



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