DU11

7" touch screen Data Unit

IP54	15W	WDL	Wi-Fi

The **DU11** is a **high-end** member of the BMSvision data collection terminals featuring a 7" touch screen and a graphical **intuitive web-based** user interface for user friendly interaction with the operator. The **DU11** interacts as a front end and can be used for all BMSvision's Master systems. It is the perfect HMI for companies striving for paperless manufacturing.
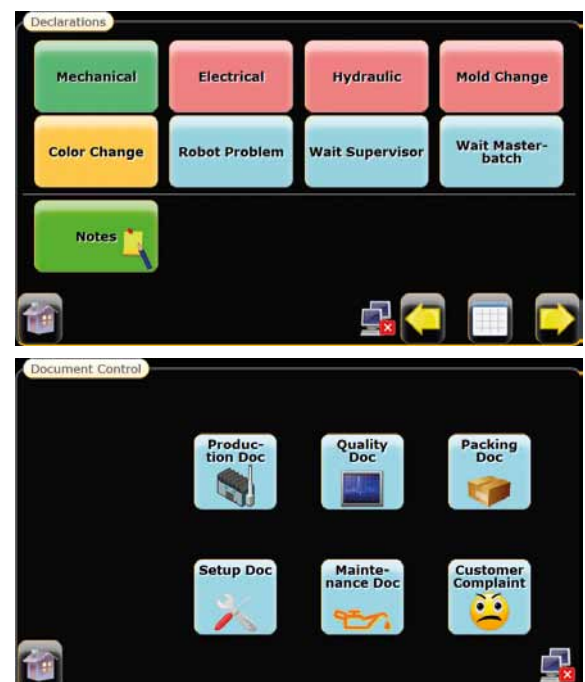
Functions

- Manual entry of down time reasons, scrap input, ...
- Display production information: OEE, KPI's, efficiencies, units produced, scrap rates, ...
- Display planning information: actual job status, next jobs planned, ...
- Document control: setup, quality, maintenance, instructions, ...
- Energy monitoring.
- Operator tracking.
- Traceability.
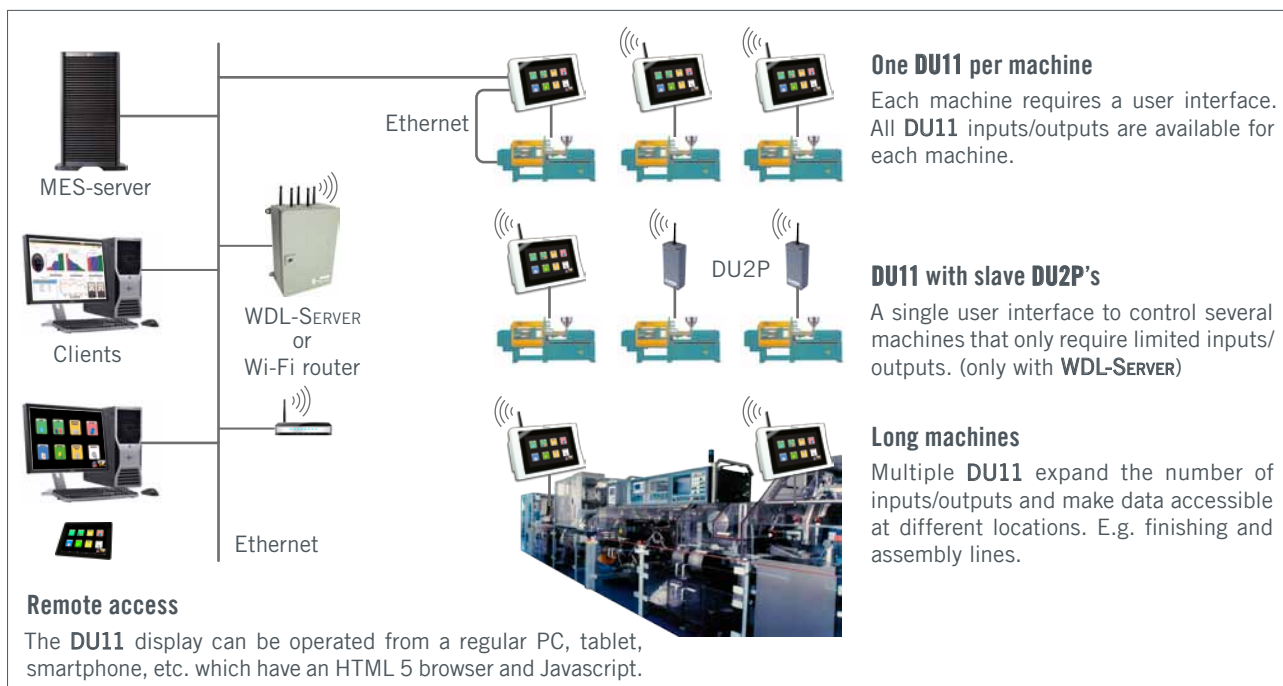- Viewing the Management Dashboard.

(all functions are subject to licensing)

Features

- Direct access to all pages.
- Wireless (Bluetooth class 1) via **WDL-Server** or wired (Ethernet) 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 Unicode Chinese supported.
- Optional configurable pages.

Machine connection configurations

One DU11 per machine
Each machine requires a user interface. All **DU11** inputs/outputs are available for each machine.

DU11 with slave DU2P's
A single user interface to control several machines that only require limited inputs/outputs. (only with **WDL-Server**)

Long machines
Multiple **DU11** expand the number of inputs/outputs and make data accessible at different locations. E.g. finishing and assembly lines.

Remote access
The **DU11** display can be operated from a regular PC, tablet, smartphone, etc. which have an HTML 5 browser and Javascript.

Technical specifications

Touch screen display
- 7" color LCD (152 x 91 mm).
- WVGA resolution: 800 x 480 pixels.

Power
- Different ways to power: 100 to 240 Vac, 24 Vdc or Power over Ethernet (48 Vdc).
- Low power consumption: 15 W.

Input/outputs for machine connections
- 16 electric isolated digital/counter inputs, suitable for 12 V and 24 V systems. Can all be used either as counter input or as "automatic stop" input.
- 5 relay outputs (12 V / 5 W) which can be used to activate lamps, stop the machine, ...
- 2 electric isolated serial ports, software configurable RS232/422/485, Modbus compatible.
- 1 Ethernet port (LAN 1) to interface with the Ethernet port of the machine (if available), e.g. in case of Euromap 63.

Networking with BMSvision MES server
- Wireless (Bluetooth class 1 or Wi-Fi) or wired (Ethernet, LAN 2).

Options

- Backup & Recovery function allowing a minimum of 24 hours local data storage in case of server or network failure.
- RFID tag reader.
- Barcode scanner.

DU11 part numbers: A901170 (WDL), A9011701 (Ethernet).

Other connections
- 2 USB ports:
  - USB 1 for connection of customer equipment like a barcode scanner
  - USB 2 for a memory stick, external WDL interface, ...
- 1 auxiliary Ethernet port (LAN 3).

Housing
- Size: 250 x 170 x 90 mm (W x H x D).
- Weight: 1250 g.

Ingress protection rating
- Standard: IP54 (dust protected / splashing water). On demand: IP65 (dust tight / water jets).
- The **DU11** does not have a fan, nor ventilation holes.

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

BMSvision Master systems

PLANTMASTER: for the plastics industry.
ENERGYMASTER: energy monitoring system.
PHARMASTER: for the pharmaceutical industry.

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