BMSvision

DU9

5" touch screen Data Unit

IP54	10W	WDL	Wi-Fi

The **DU9** is a high-end member of the BMSvision data collection terminals featuring a 5" touch screen and a graphical intuitive web-based user interface for user friendly interaction with the operator. The **DU9** interacts as a front end and can be used for all BMSvision's Master systems.

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, ...
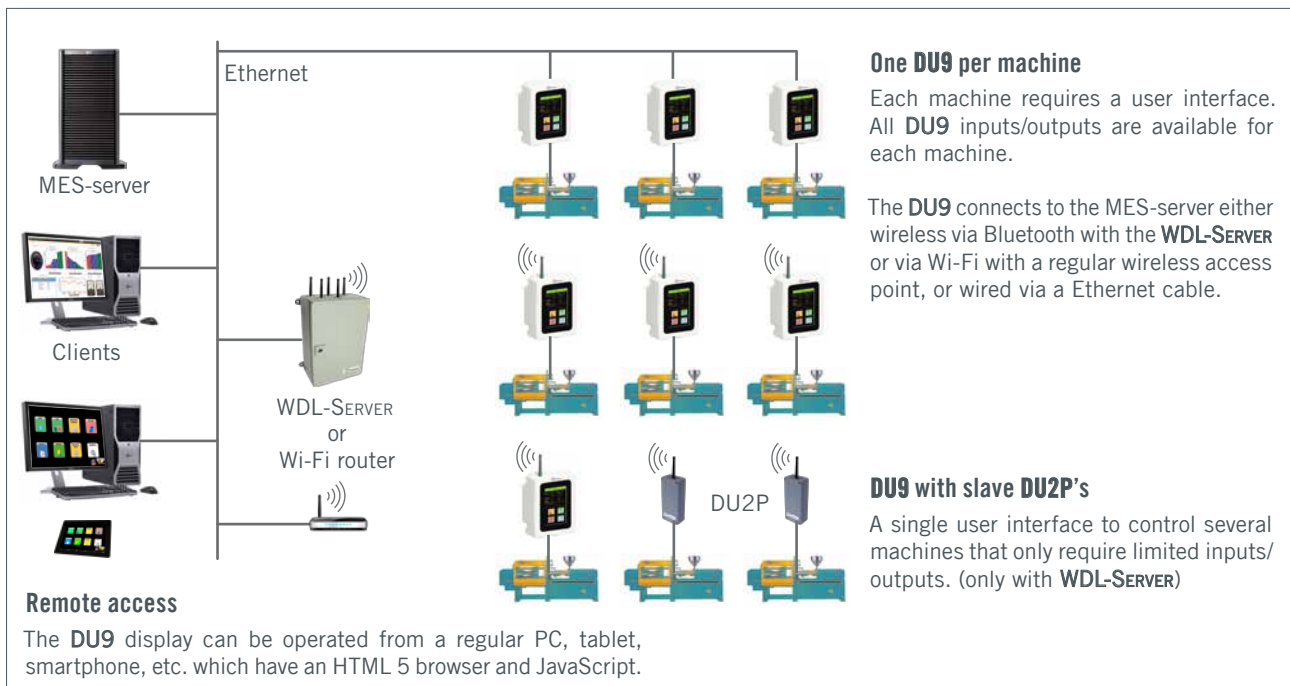- Energy monitoring.
- Operator tracking.

(all functions are subject to licensing)

Features

- Direct access to all pages.
- Wireless (Bluetooth class 1 or Wi-Fi) 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 Information		Henri Matisse
RUN 0:07:26		
Work Order	187000-1	
Tool Number	M8025	
Product Code	P8025-300	
Cavities	1	
Quantity Required	12000	
Planned Cycle Time	28.2	
	Shift to Date	Job to Date
Average Cycle	28.7	28.1
Produced	848	7540
Scrap %	5.7	2.9
Machine %	83.08	96

Machine connection configurations

One DU9 per machine

Each machine requires a user interface. All **DU9** inputs/outputs are available for each machine.

The **DU9** connects to the MES-server either wireless via Bluetooth with the **WDL-SERVER** or via Wi-Fi with a regular wireless access point, or wired via a Ethernet cable.

DU9 with slave DU2P's

A single user interface to control several machines that only require limited inputs/outputs. (only with **WDL-SERVER**)

Remote access

The **DU9** display can be operated from a regular PC, tablet, smartphone, etc. which have an HTML 5 browser and JavaScript.

Technical specifications

Touch screen display
- 5" color LCD (65 x 108 mm).
- WVGA resolution: 480 x 800 pixels.

Power
- Different ways to power: 24 Vdc or Power over Ethernet (48 Vdc).
- Low power consumption: less than 10 W.

Input/outputs for machine connections
- 8 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, ...

Networking with BMSvision MES-server
- Wireless (Bluetooth class 1 or Wi-Fi)

or
- Wired (Ethernet).

Other connections
- USB ports:
  - USB 1 for connection of customer equipment like a barcode scanner
  - USB 2 for a memory stick, external WDL interface, ...

Housing
- VESA 75 x 75 mm compliant mounting
- Size: 126 x 174 x 72 mm (W x H x D).
- Weight: 680 g.

Ingress protection rating
- Standard: IP54 (dust protected / splashing water). On demand: IP65 (dust tight / water jets).
- The **DU9** 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.
- Barcode scanner.

DU9 part numbers: A901180 (wireless), A9011801 (Ethernet).

BMSvision Master systems

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