

B2A MEASURED VALUES MODULE



Electronic
or online
measured
values
records

Immediate
transfer of
data to the ERP
system for further
processing

Creation of
measured
values
definitions

Timely
notification
of production
process errors

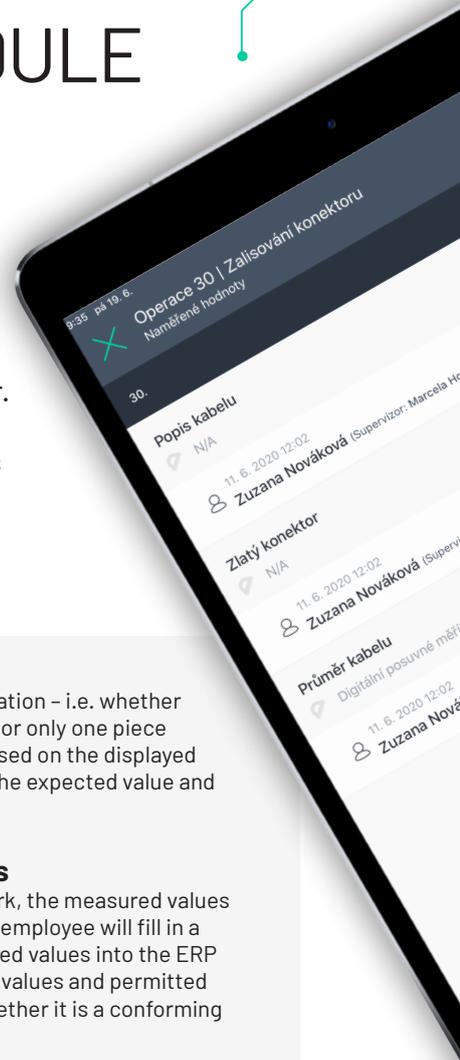
User comfort
and intuitive
control



B2A MEASURED VALUES MODULE

The module is used for integration into the ERP system, and into individual B2A Digitized Manufacturing applications that work with production orders and operations. It is designed to be used by production workers to record important production process values, for an inter-operational inspection, for the approval of the first piece, or for the launch of a certain process. Communication with the ERP also enables secondary work with data – analyses, or a report for the customer.

It is composed of three parts – **Web Application Module** (measured values specification definition), **Mobile Application Module** (entry and display of measured values), and **ERP System Module** (storage of measured values, linking with manufactured products).



FUNCTIONALITIES

Creation of measured values definitions

All values that need to be measured and recorded must have their definition in the measured values module (from the web interface). They follow on from the operations of the technological process of manufactured components, or the operations of production orders from the ERP system.

These definitions serve as a specification (template) during the creation of component production orders. The measured values definitions can also be set at the production order level, thereby creating a one-time inspection plan (for example for random inspections), or to modify definitions copied from the manufactured component on a one-time basis.

The measured values definitions address what is to be measured, how frequently, and the expected value including tolerance.

The definition also includes the setting of the type of measured values:

- numerical value (e.g. 21.2 cm ± 2 mm)
- truth value (yes/no)
- text value (e.g. SN2020%)

Displaying of measured values definitions

A tab with the measured values specification is displayed in the operation detail in the mobile application with the measured values module. In this tab, the employee clearly sees a list of all the values that they will have to measure and record after the execution, including

measurement frequency information – i.e. whether they must measure every piece, or only one piece out of a certain quantity, etc. Based on the displayed definitions, the employee sees the expected value and permitted tolerance.

Measured values records

If, during the write-off of the work, the measured values must also be recorded, then the employee will fill in a form which will copy the measured values into the ERP system. Based on the measured values and permitted tolerances, it then evaluates whether it is a conforming piece or a defective product.

Measured values history

The recorded values can be displayed directly in the mobile application (or the ERP system) – in the relevant tab in the operation detail.

Notifications

If the measured values are outside the permitted tolerance, then the system automatically notifies the controllers or other responsible employees. The manager can thus react to the situation in good time, and implement measures that will prevent further damage or an increase in production costs.

Workflow

Within the module, it is possible to define different workflows for recording measured values. If the correct values are not measured, then it is not possible to continue the process. For example, this may involve the approval of the first piece, whereby the employee cannot continue production until it has been approved by a supervisor.

All the functionalities are the subject of the module customisation for the specific solution implementation.