

new controller generation

- MCU production terminated due to discontinued components
- last order up to 03/31/2019
- 10 years spare parts guarantee
- → new controller version, generation 3.0 available for order from 01/01/2019

general information



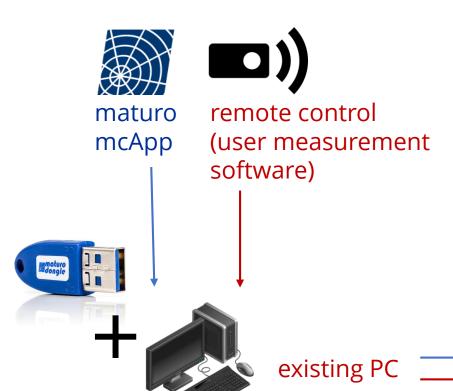
- control via existing PC
- software included
- TCP/IP into the drive system
- automation via LAN up to 100 Mbit/s
- Possibility to combine with existing GPIB devices

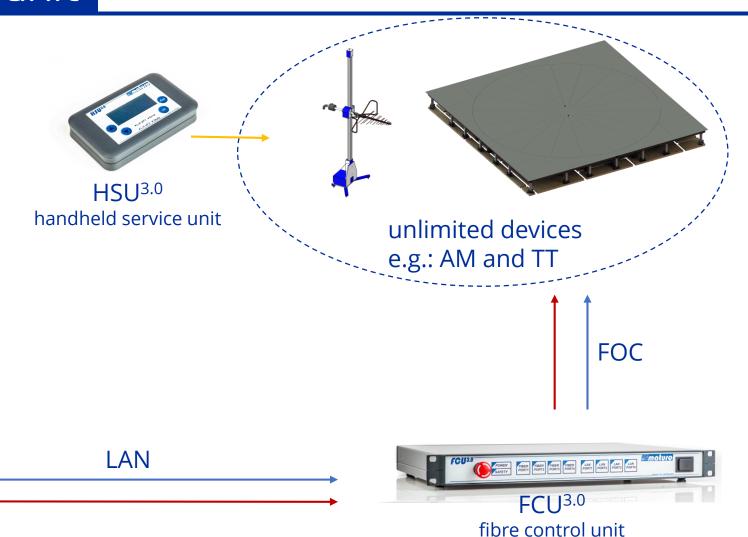
general information



- highest flexibility due to decentralization of drive intelligence (comparable to the MCU-system)
- unlimited combination of various positioners independent of the controller version 3.0
- extended interface for development of own applications

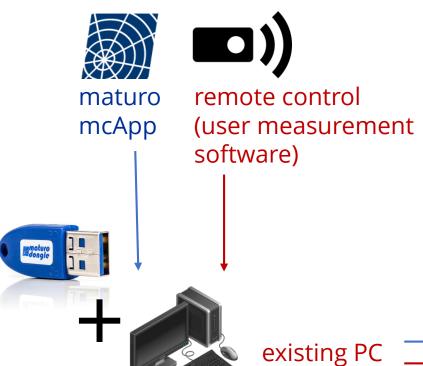
FCU application

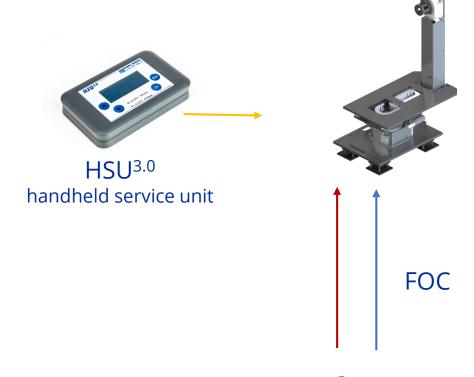




Maturo

FCU-S application





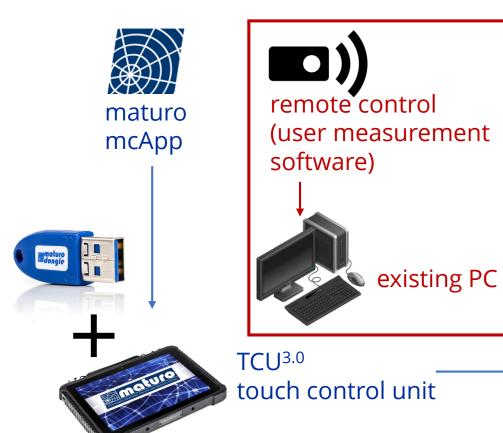
LAN



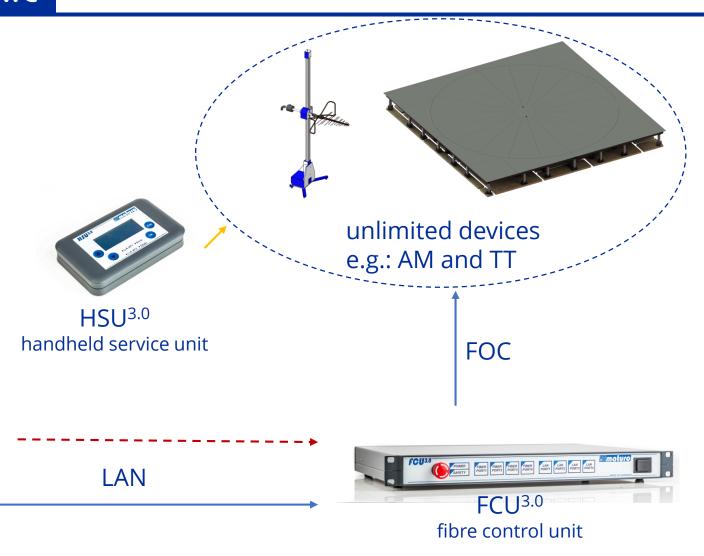
one device

e.g.: APL

FCU application with TCU^{3.0}



19.10.2018



single components

- FCU^{3.0} controller
- TCU^{3.0} optional operating tablet
- HSU^{3,0} handheld service unit
- mcApp maturo control Application
- maturo dongle

FCU 3.0 - controller

properties

- use of common FSMA cables
- integration of emergency stop switches combinable
- FOC connection up to 2 km
- optimization of interfaces

 fastest operation times
- integrable in the company network



green lights on the front and on the back of the controller:

- lights up during physical connection
- flashes during data transfer



FCU 3.0 - controller

technical data

ports	4x LAN, 4x Fibre optics
transfer rate	100 Mbit/s
voltage	100 V – 240 V / 50 Hz – 60 Hz
current consumption	max. 20 W
fuse	2x T1,6 A
size in mm (W x D)	19" Rack mount (427 x 300)
height	1 HE (44 mm)
temperature range	5°C – 40°C
total weight	3 kg
accessories	1.5 m power supply cable HSU ^{3.0} handheld service unit service manual

FCU 3.0 - S - controller

same properties as the FCU^{3.0} - controller technical data

ports	1x LAN, 1x Fibre optic
transfer rate	100 Mbit/s
voltage	100 V – 240 V / 50 Hz – 60 Hz
current consumption	max. 20 W
fuse	2x T1,6 A
size in mm (W x D x H)	100 x 105 x 40
temperature range	5°C – 40°C
total weight	600 g
accessories	1.5 m power supply cable HSU ^{3.0} handheld service unit service manual





TCU 3.0 - touch control unit

properties and technical data

- Windows 10 industrial tablet
- rugged design
- IP65 and MIL-STD-810G, gorilla glass 3
- mcApp preinstalled
- can be used instead of a PC



TCU 3.0 - touch control unit

technical data

data interface	Wi-Fi (802.11 a/b/g/n), LAN (RJ45)
ports	USB 2.0 Type-A, micro USB, LAN (RJ45), RS232
system specification	Intel®Cherry Trail Atom™ Z8350 Intel® HD graphics 4 GB DDR3L RAM 64 GB SSD, expendable via micro SD
display	10,1" (25,65cm) IPS 1280x800 pixel, 280 cd/m² 10-point capacitive (Corning Gorilla Glass 3)
battery	Lithium-ion, 10000 mAh, 3.7V, removable
protection class	IP65 and MIL-STD-810G
size in mm (L x W x H)	280 x 187 x 22
temperature range	-20°C – 60°C
total weight	1,2 kg
accessories	Charging cable Docking station Carrying strap & hand strap

HSU ^{3.0}

properties and technical data

- included with every FCU^{3,0} and FCU-S controller
- for initial installation FCU^{3.0} controller not necessary can be done with the HSU^{3.0}
- simple update possibility via USB
- any settings can be changed e.g. TCP/IP address
- ports: USB Type A, USB Type B, LAN, maturo service interface
- size in mm (W x D x H): 150 x 92 x 30
- weight: 210 g





maturo dongle

properties

- USB stick Type A
- size in mm (L x W x H): 23 x 15 x 8
- weight: 4g
- neccessary for running the devices



maturo control App

properties

- one software to control all axes of all devices
- realtime interaction with the devices
- lite version
 → mcApp lite controls one axis e.g.: CGR, TT







maturo control App

pro and lite version - possibilities one device, one axis e.g. CGR, TT one device, maturo mcApp - lite more axes FCU^{3.0}-S e.g. APL maturo mcApp - pro **FCU**^{3.0} unlimited devices e.g.: AM and T

17

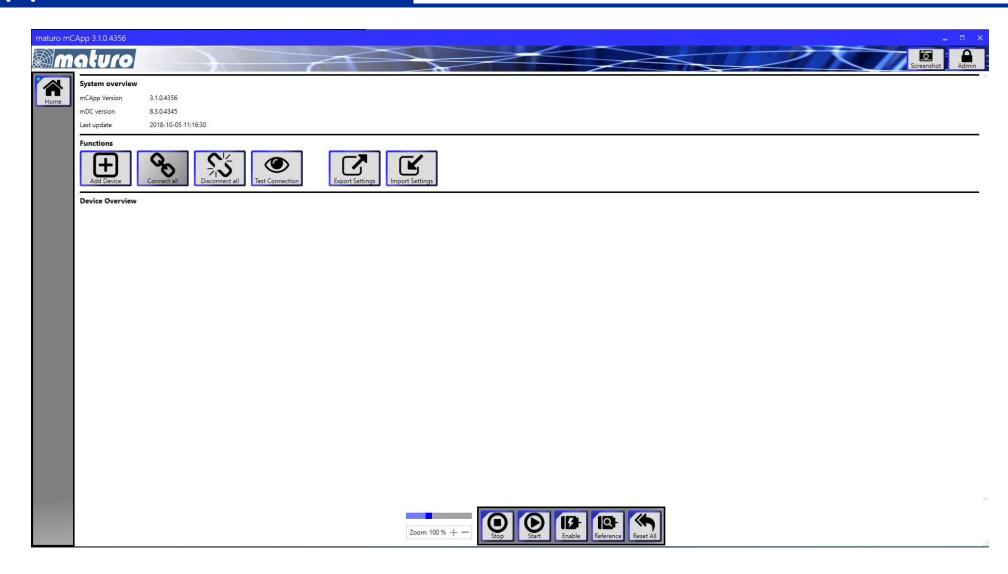
maturo control App

requirements for existing PC

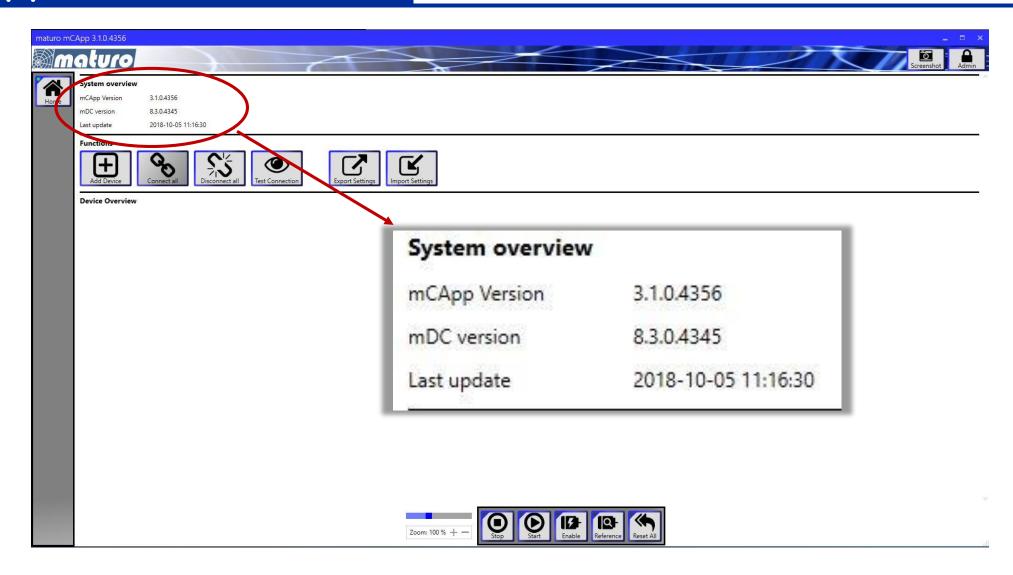
- Windows 7 32/64bit or better
- .NET Framework (included with mcApp software)
- 1 GB RAM
- 1 GHz Processor
- 5.5 GB disk space
- fixed IP of the PC in the same subnet mask
 - > recommendet to have a second network interface card
- optional: USB network adapter from maturo always included
 - → easiest way to have a second network interface card

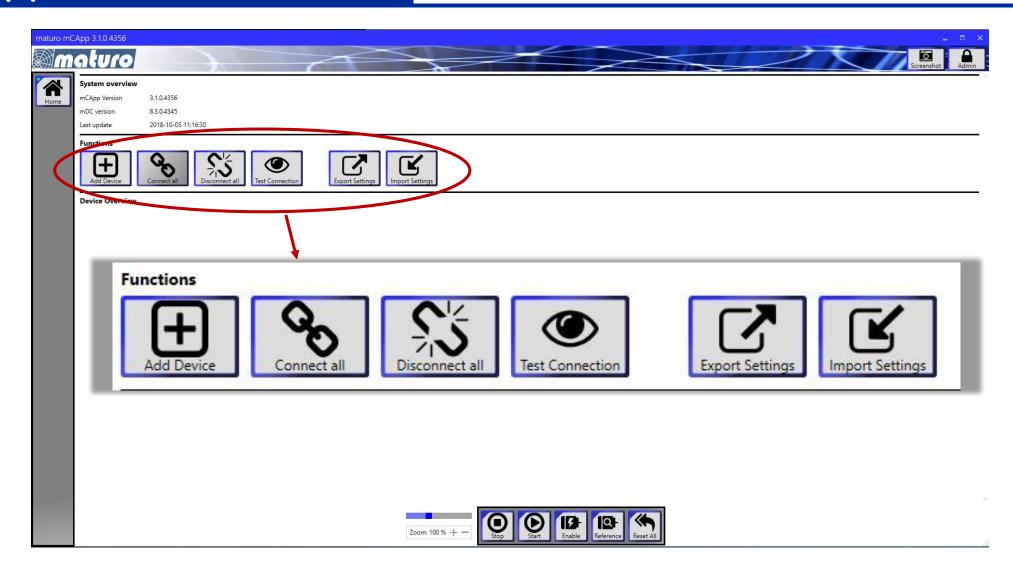


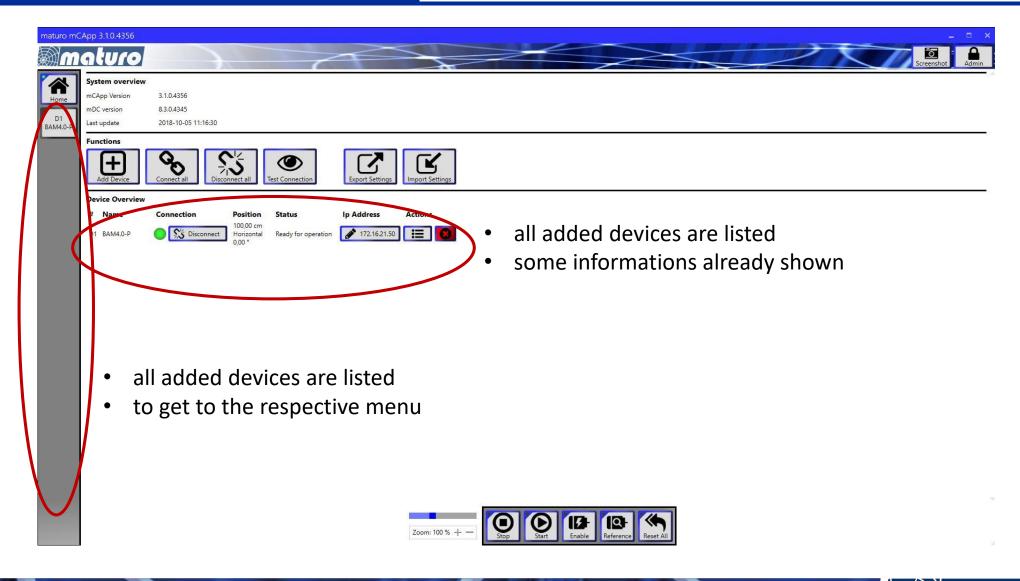


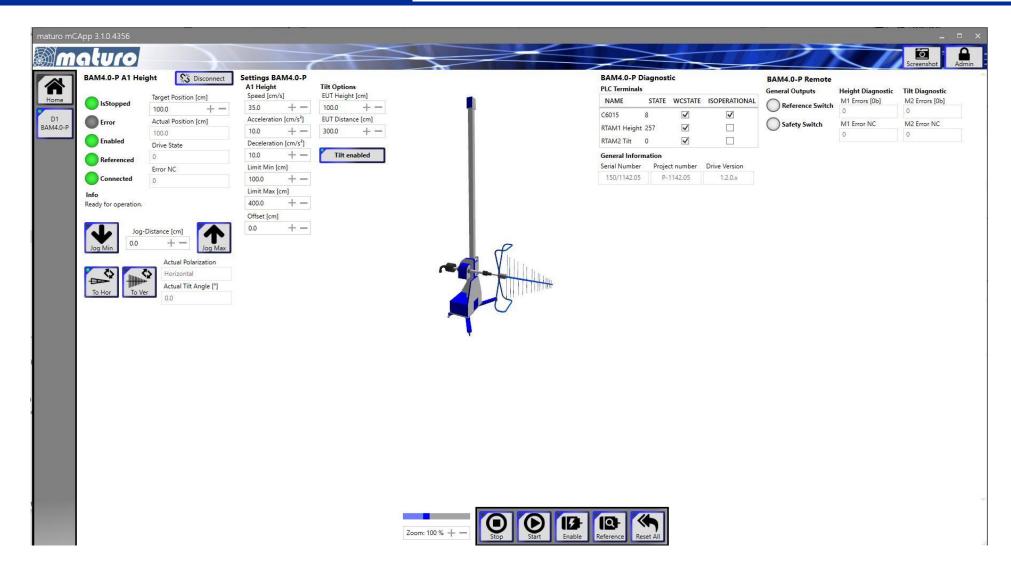


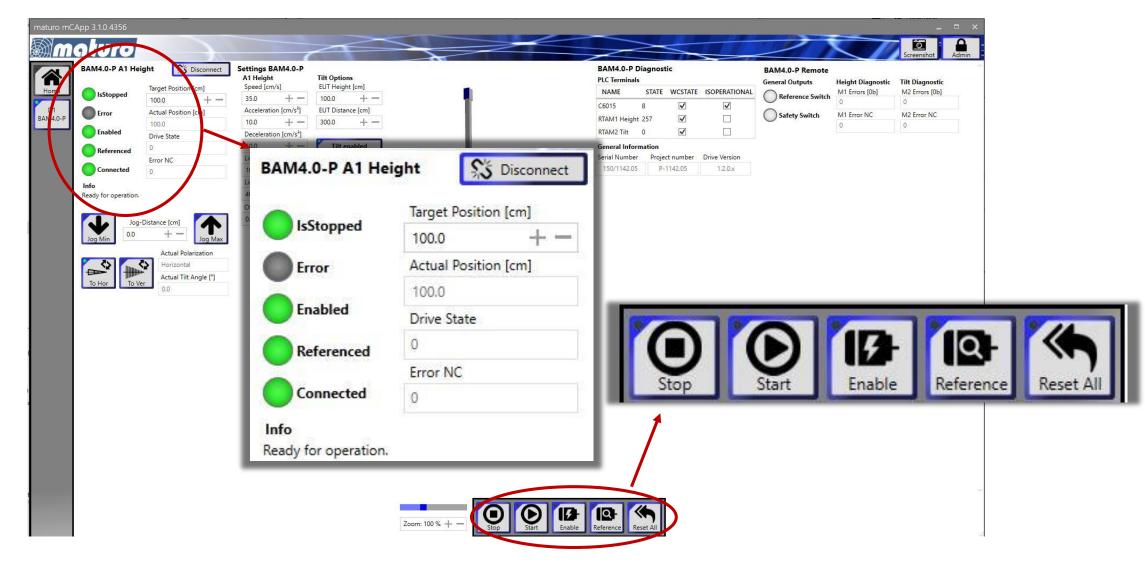
19.10.2018

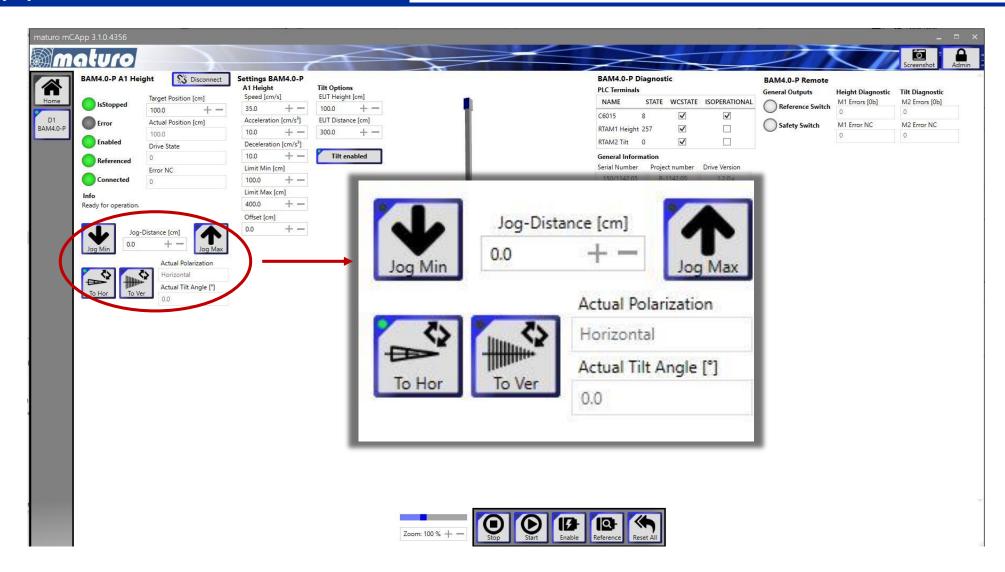


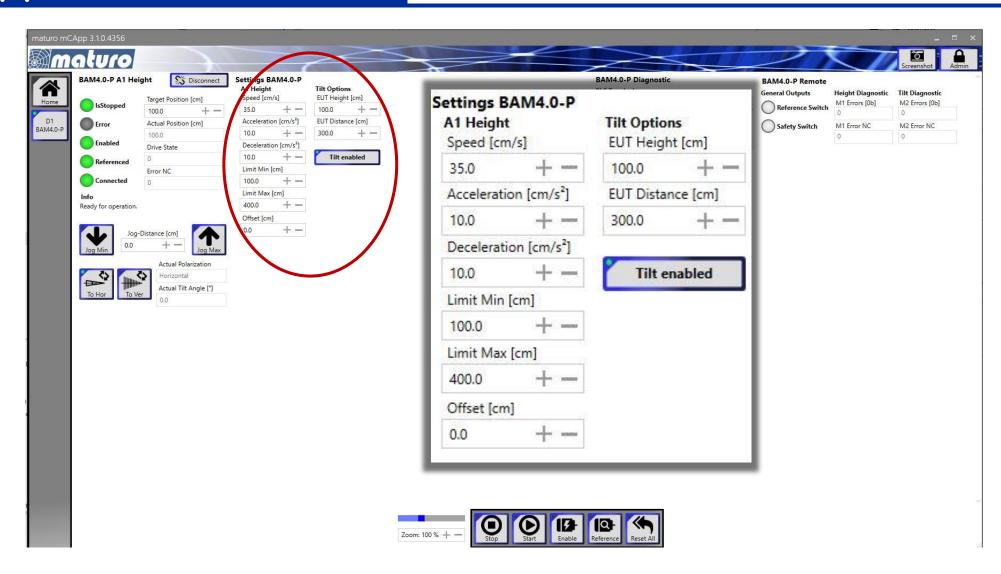


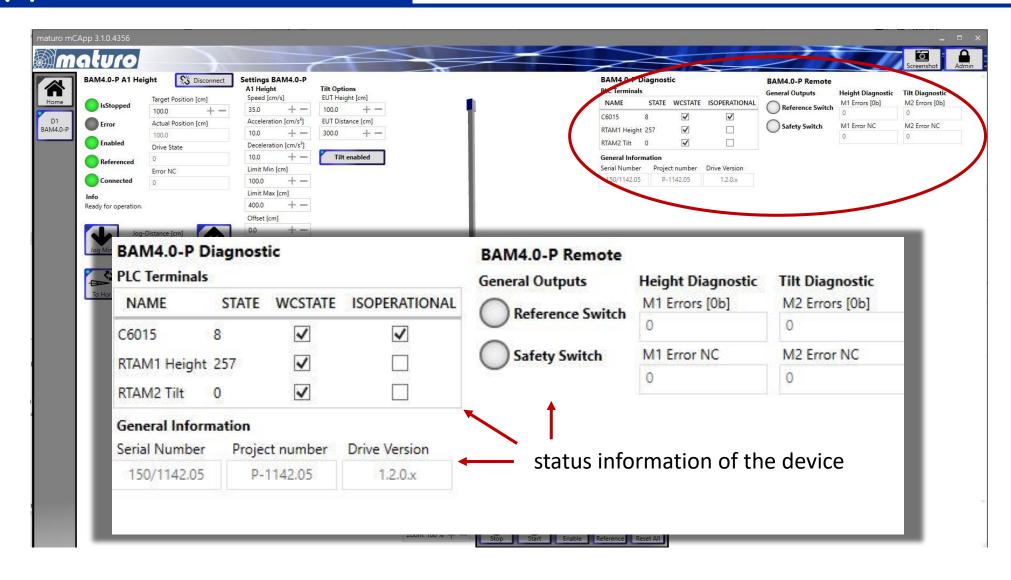












27

FCU^{3.0} - Highlights

- flexible in its use
- only state of the art components
- for each application individual customizable
- future-oriented
- always up to date due to simple update process

