

DGT300⁺

HMI DIGITAL CONTROLLER

MEROBEL

Torque & Tension

- > All in one solution for web tension & torque control
- > Dedicated configurations for brakes & motor drives
- > Enable Set up with its software interface

DGT300+ is the **Swiss knife controller** able to offer solutions from simple open loop to the most sophisticated control combining speed & torque control.

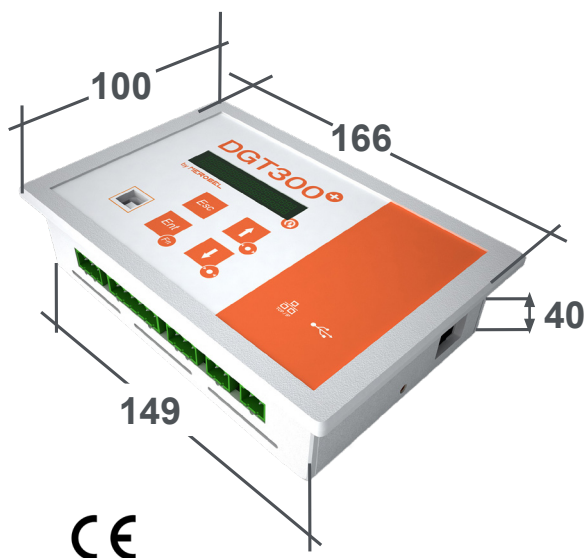


DGT300+

DGT 300+ is the most attractive turnkey solution on the market for closed-loop / open loop applications used in tension control solutions for winding, unwinding, and intermediate tension control.

DGT 300+ controller is also compatible with demanding torque control solutions for test bench applications.

DIMENSIONS



ADVANCED FEATURES OF REGULATION

- > Built-in **precision amplifier** for 1 or 2 load cells
- > Automatic variable P.I.D **regulation** function
- > Open + closed loop + speed calculation mode
- > **Direct power supply** for e-brake
- > Very easy set-up with the PC software (Windows)
- > Automation communication : MODBUS TC/IP
- > Dedicated web tension functions : taper, inertia compensation, no stop...

TECHNICAL FEATURES

Part number	#	ME131953-00
Power supply	[V DC]	24 → 35
Max power consumption	[VA]	70
Input measure	[V DC]	1 mV → 10V
Input set point / diameter / tacho [TC]	[V DC]	0 → 10
Input line speed [LS]	[kHz]	30 max
Input logics	[V DC]	5 → 24
Output A01 & A02	[V DC]	-10 → +10
Output C1-C2 max current	[A]	1.5
Ambient temperature	[°C]	0 → 40
Weight	g	400

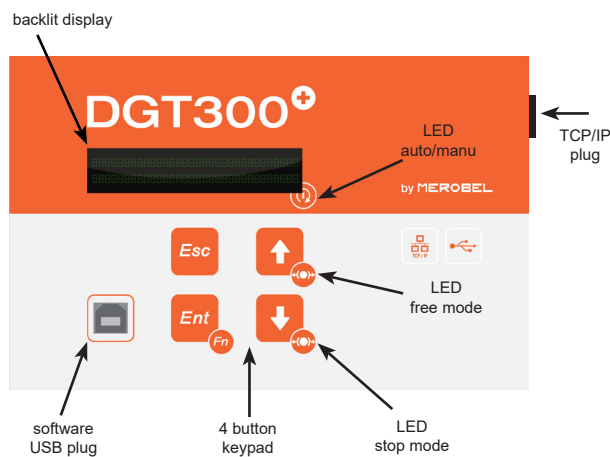
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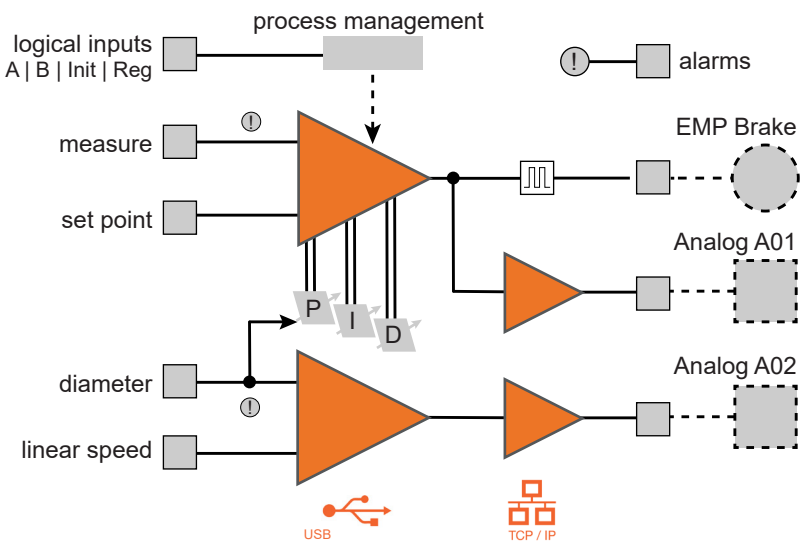
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Torque & Tension

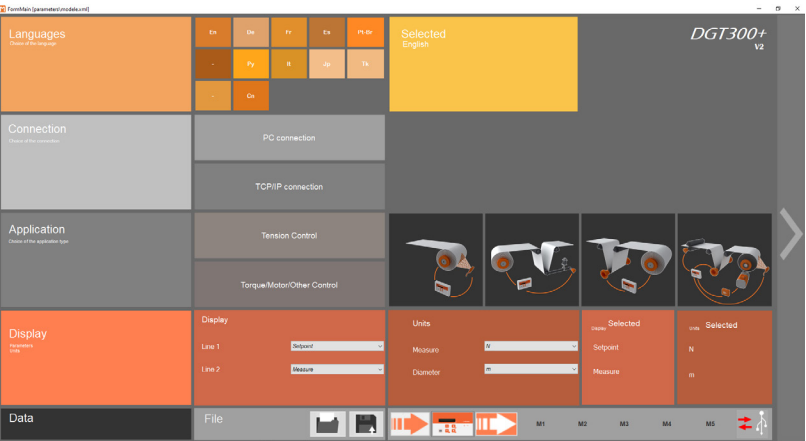
SETTINGS



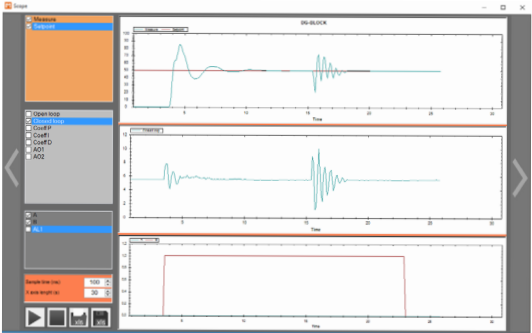
PRINCIPLE



SOFTWARE

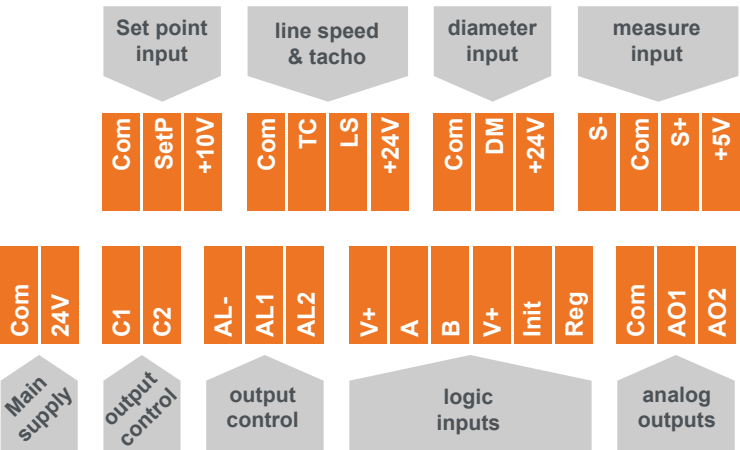


Simple interface with all parameter settings displayed in a unique window
Scope function for easy data readout



Also fully configurable by TCP/IP communication or from panel keypad & display.

CONNECTIONS



Com	0 V
SetP	Set point (0-10V or Pot.)
+5V/+10V/+24V	Internal supplies
TC	Tacho input (0-10V)
LS	Encoder input (5→24V PNP/ NPN)
DM	Diameter input
S- / S+	Signal (-) / Signal (+)
24V	24V DC - main supply
C1/C2	Power output direct supply
AL-	Output logic reference
AL1/2	Alarm outputs
V+	24V logic supply
A/B	Logic process inputs
Init/Reg	Logic regulation calculation input
AO1/AO2	Analog outputs (-10 → +10V)