DGT300+

HMI DIGITAL CONTROLLER

MEROBEL

Torque & Tension

> **All in one solution for web tension & torque control**

> **Dedicated configurations for brakes & motors drive**

> **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.
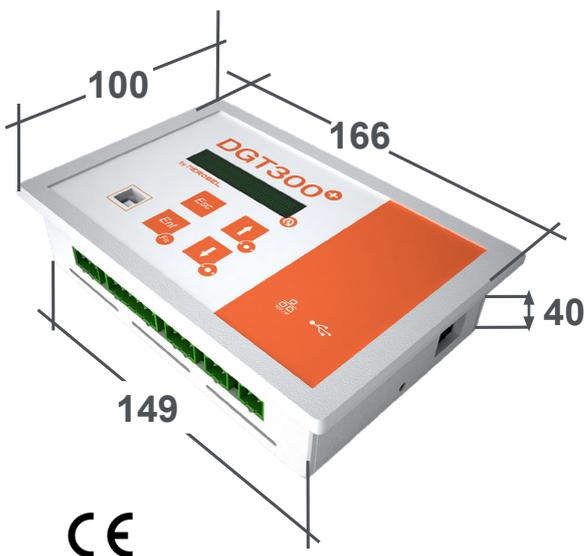
DGT300+

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 solution for test bench applications.

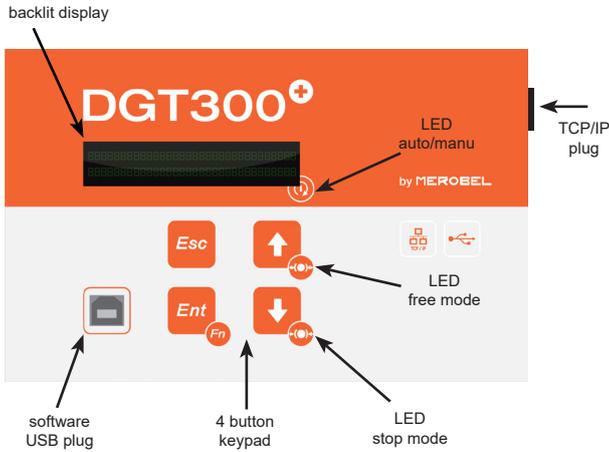## ADVANCED FEATURES OF REGULATION

> Built-in **precision amplifier** for 1 or 2 sensors

> 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

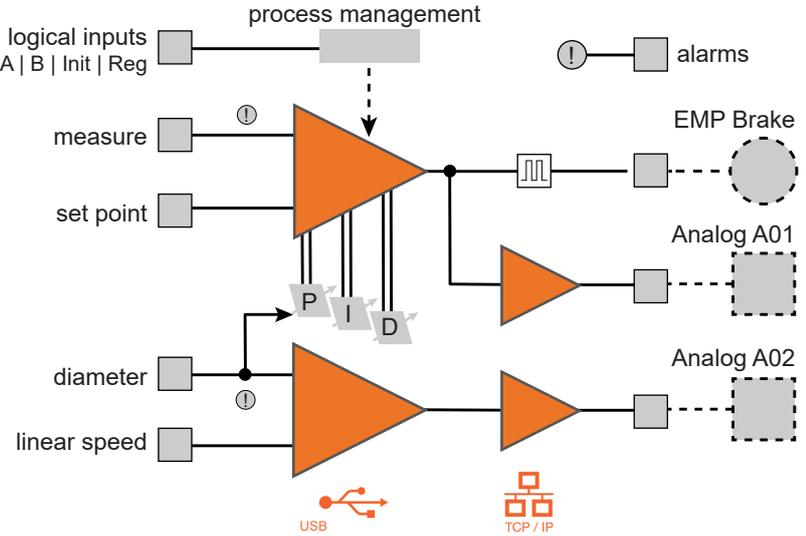> Dedicated web tension functions : taper, inertia compensation, no stop...

DIMENSIONS

100

166

40

149

CE

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

REDEX Group

DGT300+

HMI DIGITAL CONTROLLER

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SETTINGS

backlit display

DGT300+
by MEROBEL

TCP/IP plug

LED auto/manu

LED free mode

LED stop mode

Esc | Ent Fn | ↑ ↓ | 4 button keypad

software USB plug

PRINCIPLE

logical inputs
A | B | Init | Reg

process management

alarms

measure

set point

EMP Brake

P | I | D
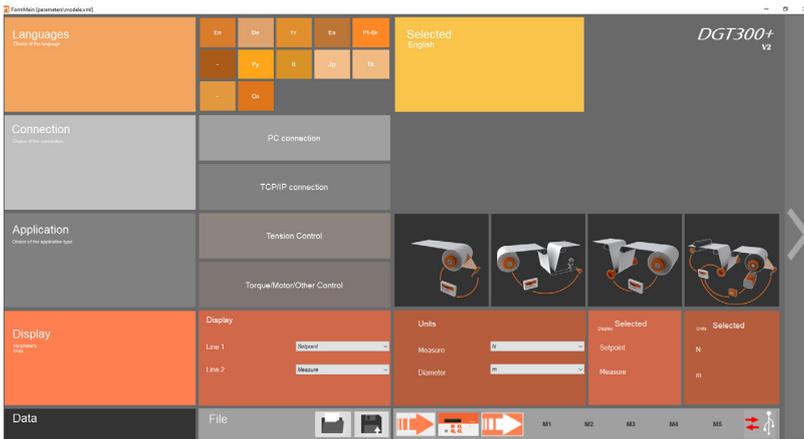
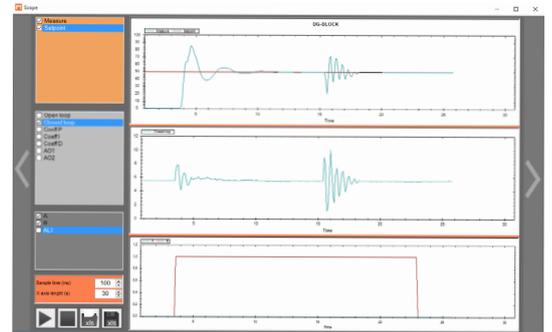Analog A01

diameter

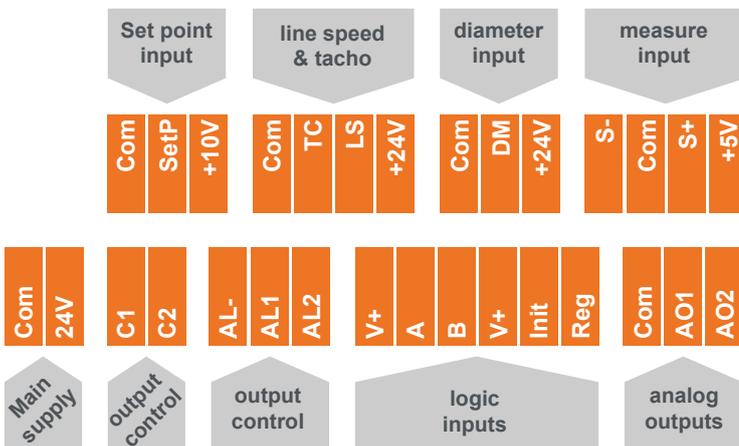linear speed

Analog A02

USB

TCP / IP

SOFTWARE

Simple interface with all parameters setting displayed on a unique window

Scope function for easy data readout

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

CONNECTIONS

Set point input			line speed & tacho				diameter input			measure input		
Com	SetP	+10V	Com	TC	LS	+24V	Com	DM	+24V	S-	Com	S+	+5V

Main supply		output control		output control			logic inputs					analog outputs		
Com	24V	C1	C2	AL-	AL1	AL2	V+	A	B	V+	Init	Reg	Com	AO1	AO2

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)

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