TAC80

Meter Control System
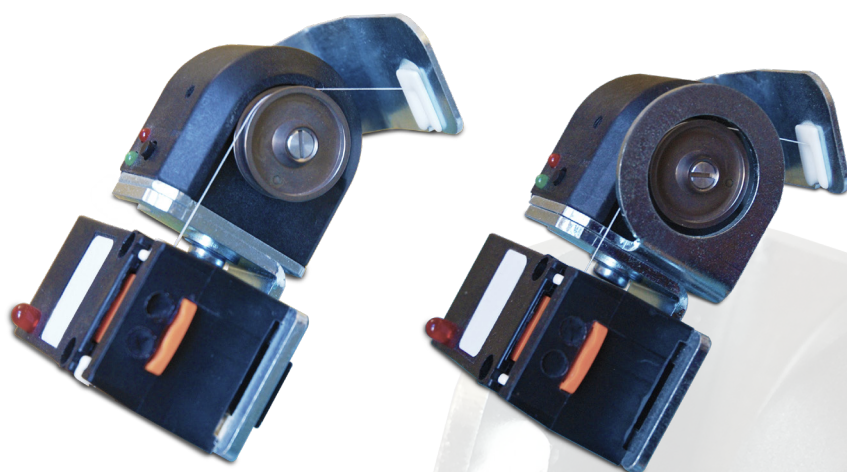
SLAVE ELECTRONIC BOARD

MASTER RACK

SINGLE ROLLER

The **Tac80** yarn length check system allows to improve the efficiency of the machines. For each type of machine we studied a specific application, also software, considering the client's needs. The operation software allows to interact in a simple way with all the system's functions. The system can manage independently the single positions or groups of positions in order to adapt the use of the machine. The single roller, with or without the yarn cutter can be easily applied to the machines, based on many mechanical systems that Thema System has already designed. It is possible to study more new applications.

We use high quality components from selected suppliers or system under specific request of the user.

YARN CUTTERS

Electrical Characteristics	
Command	18 - 36 Vdc
Led signal	Local (optional)

Mechanical Characteristics	
Reset	Manual with self holding
Cutting position	Right (left/optional)
Ceramics	Open or with self holding
For textile yarn	Up to 700 dtex
For technical yarn	Up to 3000 dtex
Relè with changeover contact (NO - C - NC)	For machines with single motorized positions

Working Conditions	
Temperatures	0/40 °C
Umidity	90% (no condensation)

IPC-W

INDUSTRIAL PC

Main Characteristics	
Operating system	Microsoft
Database	Microsoft SQL
Display	10 inch wide
	15 inch wide
Touch-screen	✓
Wi-fi	✓
Ethernet	✓
USB	✓

ROLLER

Main Characteristics	
Working speed	100 - 2500 m/min.
Tolerance	+/- 0,1%
Min. yarn tension	4 g
Development	16 rev.s = 1,000 m
Red Led	On / Off
	Blinking Slow / Quick
Green Led	On / Off
	Blinking Slow / Quick

Electrical Characteristics	
Power supply	5 Vdc
Max. current (led on)	max 12 mA
Signal output	Asymmetrical electrical pulse

Working Conditions	
Temperatures	0/40 °C
Umidity	90% (no condensation)

Options	
Yarn guide	Optional
Double (or more) yarn guide	Optional
Roller protection	Optional
Reset	Per position

MASTER RACK

Programming Data	
Position Display	Programmed lenght
	Instant lenght
	Instant speed
	Yarn brackage
	Doffing warning
	Doffing
Numbering configuration	Free
Yarn cutter use	Programmable
Machine stop disposal	Programmable
Position and reset programming	Per position
	From.. To..
	1/4 machine
	1/2 machine
	Per machine

Working Conditions	
Temperatures	0/40 °C
Umidity	90% (no condensation)

Mechanical Characteristics	
Dimensions L x H x P	350 x 175 x 330 mm
Weight	15,9 kg

Electrical Characteristics	
Nominal tension	24 / 660 Vac (on request)
Max. power	100 Watt
Connection	Ph + Ph (N) + PE
Frequency	50 / 60 Hz
IP	IP54
External communication	RS 485 / RS 232

SLAVE ELECTRONIC BOARD

Electrical Characteristics	
Power supply	18 - 32 V
Communication	RS 485
Max. current	150 mA
8 input	PNP
8 input	Analog comparator
16 signal output	PNP
16 power output	PNP CC protected

Mechanical Characteristics	
Dimensions L x H x P	260 x 40 x 60 mm
Weight	0,25 kg

INTERNET

RACK

PC TOUCH
SCREEN

SERVER

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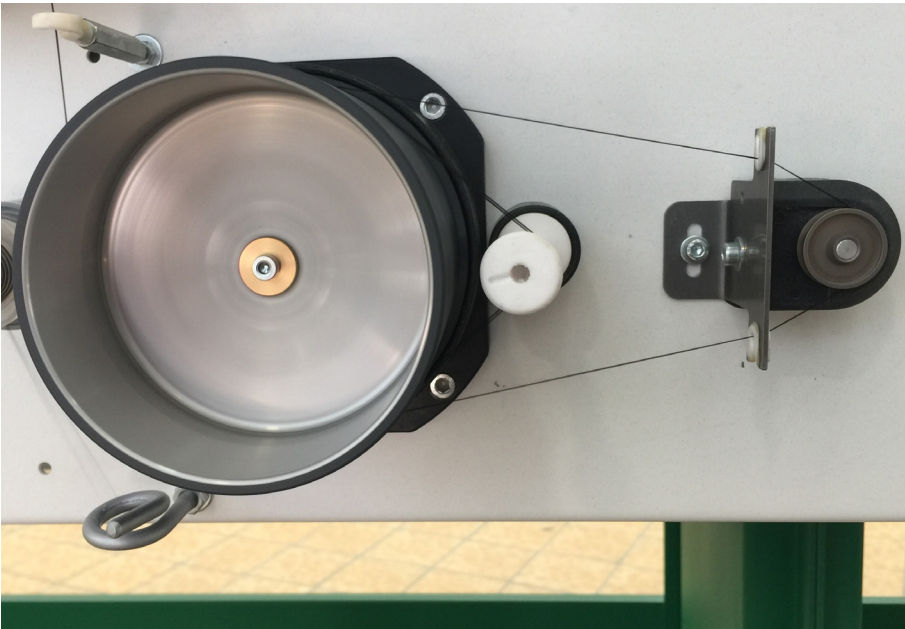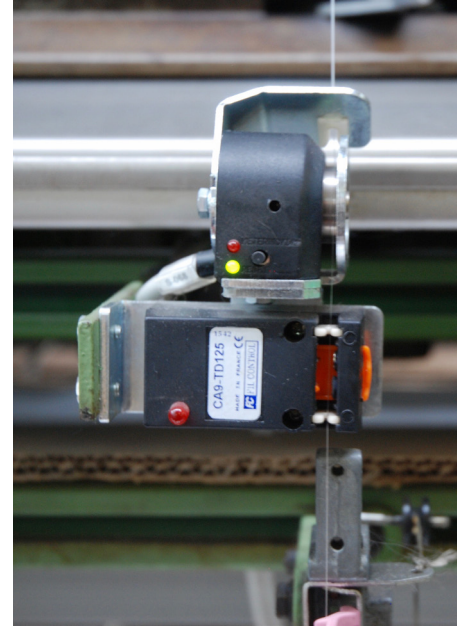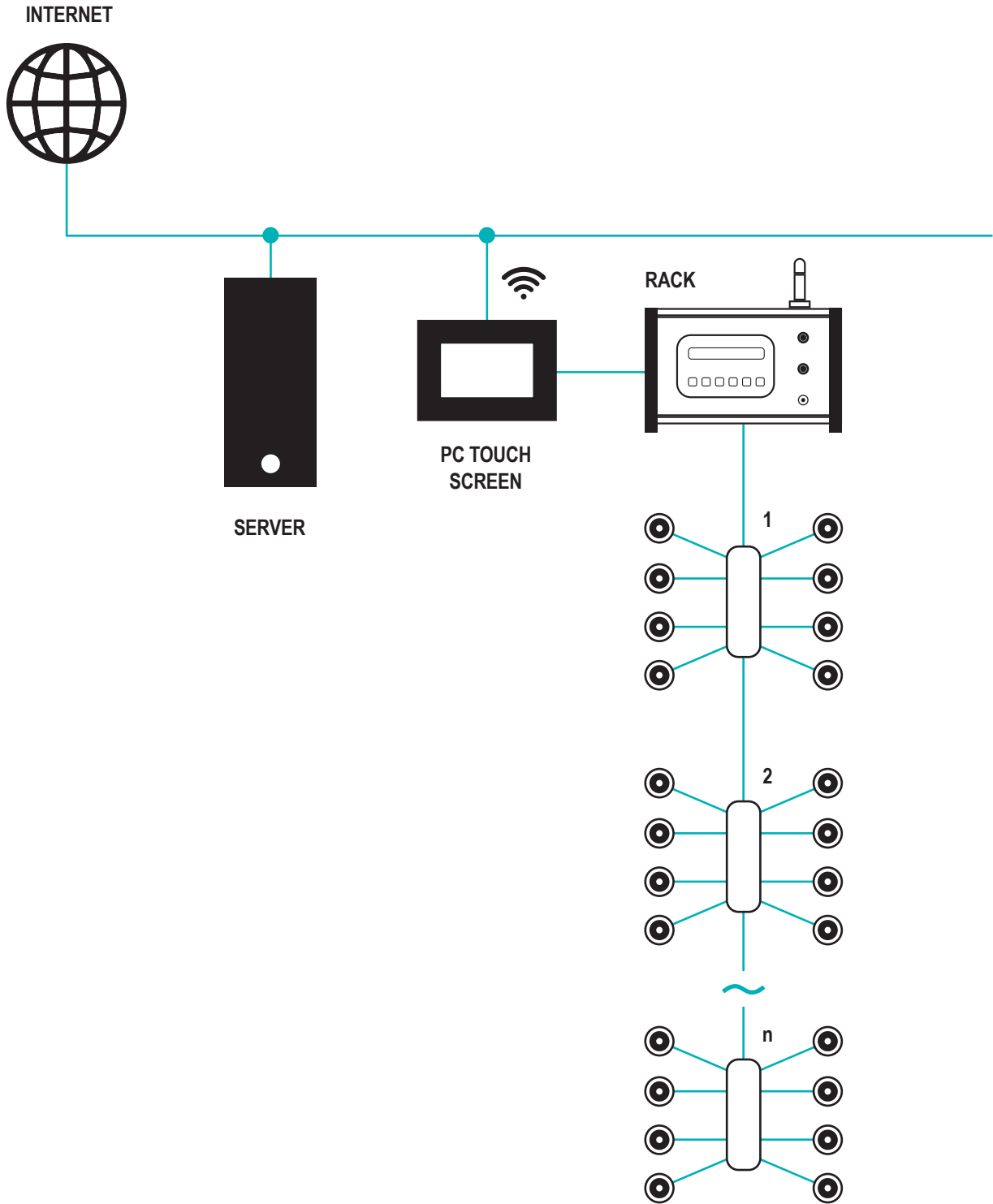
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TAC 80 ®

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