Introduction of SpeedSys® T10, T20 & T30
A functional replacement for the Jaquet T-series

Date	23-JUN-2023
Topic	SpeedSys Tx0 tachometers; a functional replacement for the Jaquet T-series (T400, T500 & T600)

Dear valued customer,

We are delighted to announce the launch of our new family of tachometer products, the SpeedSys Txx. These products have been designed as a seamless replacement for the obsoleted Jaquet T-series (T400, T500 & T600). As a trusted long-term partner of the former Jaquet Technology Group, we have leveraged our extensive experience to develop a range of tachometers that offer enhanced functionality while ensuring reliability and a straightforward transition.
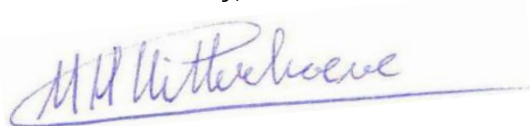
Key advantages of the new SpeedSys Tx0 tachometer products:

- Easy replacement: Our new tachometers are designed to be a direct replacement for the Jaquet T-series. Minimal modifications are required during installation, saving time and resources.
- Enhanced functionality: Our new tachometer line features several improvements to boost operational efficiency, including enhanced relay features and Modbus TCP. Please refer to the datasheet for more information.

We are confident that our new tachometer products will meet and exceed your expectations, providing the reliability and performance you require for your operations. To assist you in evaluating the advantages of our new tachometers, we have prepared a functional comparison appendix. It offers a detailed overview of the features and specifications of both product lines. Please find the appendix enclosed with this letter.

Thank you for your continued partnership and trust in Istec. We are excited about the opportunity to provide you with our innovative tachometer solutions. We look forward to supporting you during the transition to our new product line. Should you have any immediate inquiries, please feel free to contact our customer support team directly at sales@istec.com.

Yours faithfully,

Merien Uitterhoeve
Product manager
Istec International BV

Functional Comparison T400, 500 & 600 vs. SpeedSys Tx0(A)		T401	T501	T601	T10A	T10	T20	T30
Analyses functions								
Overspeed		Y	Y	Y	Y	Y	Y	Y
Speed acceleration			Y	Y			Y	Y
Underspeed			Y	Y	Y	Y	Y	Y
Standstill				Y			Y	Y
Direction				Y			Y	Y
Speed deviation			Y	Y			Y	Y
Power Supply								
24 V_{DC}		Y	Y	Y	Y	Y	Y	Y
230 V_{AC}			Y	Y				
Redundant							Y	Y
Structure								
Channels		1	2	2	1	1	2	3
Voting							Hardwired / Software	Hardwired / Software
Environmental								
Temperature [°C]	24 Volt DC Version	-40 .. +85	-40 .. +70		-20 .. +60			
	AC Volt version		-25 .. +50					
Humidity	Average	75%			75%			
	Peak	90%			90%			
Certification								
CE		Y	Y	Y	Y	Y	Y	Y
UL		Y						
Marine Class	EN 50155 (GL)	Y				Y	Y	Y
Specifications								
Isolation	Input/output	Y	Y	Y	Y	Y	Y	Y
Frequency Range [Hz]		0.01 - 35 000	0.025 - 50 000		0.25-10 000	0.25 - 35 000		
	Relay output	T_m + 10.5 ms	T_m + 6 ms	T_m + 6 ms	T_m + 4 ms	T_m + 4 ms	T_m + 4 ms	T_m + 4 ms
Input / Output								
Input	Hall sensor	Y	Y	Y	Y	Y	Y	Y
	2-wire Hall sensor	Y	Y	Y				
	VR sensor	Y	Y	Y	Y	Y	Y	Y
	Namur		Y	Y				
	Encoder					Future	Future	Future
	Remote reset				Y	Y	Y	Y
	Analogue (4-20 mA)			2				
Output	Analogue (4-20 mA)	1	2	2	1	1	2	3
	Frequency Out	1	2	2	1	1	2	3
	Double pole relays				1 x DPST	1 x DPST	2 x DPST	3 x DPST
	Single pole relays	1 x SPST	4 x SPST	4 x SPST	1 x SPST	1 x SPST	2 x SPST	3 x SPST
Communication								
Configuration port	RS232	Y						
	TCP		Y	Y	Y	Y	Y	Y
	USB							
Data Transfer	CAN Bus		Y	Y				
	TCP Modbus						Y	Y	Y
Display	Bluetooth interface			Y				
Diagnostics								
Sensor monitoring	power monitor	Y	Y	Y		Y	Y	Y
	wire breakage	Y	Y	Y		Y	Y	Y
System monitoring		Y	Y	Y		Y	Y	Y
Settings								
Adaptive triggering		Y	Y	Y	Manual	Y	Y	Y
Measuring time [ms]	2 / 5 / 10 / 20 / 50 / 100 / 200 / 500 / 1 000 / 2 000 / 5 000	Y	Y	Y	No. of pulses averaging	Y	Y	Y
Limits	Levels per input channel	2 levels	2 levels	2 levels	2 levels	2 levels	2 levels	2 levels