



Driving safely
is what matters



TOM Driving Monitoring

Safety Tachometry & Event Recorder



Fully & quickly customizable,
preserving TOM safety SIL
certification

The variety of TOM products makes for easy vehicle integration, whether it be LVR, metro, mass transit or mainline train.

Most specific project requirements can be easily implemented using the unique safe configuration capabilities of TOM.

Advanced customization suite

- Elementary generic blocks library
- XML description of train applications
- Ensures safe operation of customized application

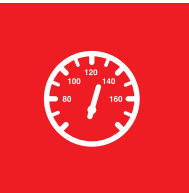
Expertise, safety, reliability

- More than 30 years of experience
- Up to SIL4 developments applications



CUSTOMER BENEFITS :

- + Time & cost savings
- + Independence & flexibility
- + Configuration by your own system engineers
- + Preserve product safety certification



Typical Characteristics	Tom P	Tom pS	Tom E	Tom K	Tom U
Recording					
Customization capability level	Highly customizable				
Protection level	Fireproof 650°C, Crushproof 110kN, Shockproof 100g, Waterproof 15m				
Flash memory capacity	> 1 month > 10 million events				
Input ports (Digital, Analogue, Frequency, Audio)	16 DI + 4 AI + 1 FI	16 DI + 4 AI + 1 FI	1 Audio	48 DI + 4 AI + 4 FI	96 DI + 12 AI + 4 FI
Communication ports	1 x RS485/422 1 x M12 Ethernet 1 x MVB/CAN/ Profinet	2 x RS485/422 1 x M12 Ethernet	2 x M12 Ethernet	1 x M12 Ethernet 1 x MVB/CAN/ Profinet	3 x RS485/422 1 x M12 Ethernet 2 x MVB/CAN/ Profinet
Download and maintenance	USB + RJ45 Ethernet	M12 Ethernet	RJ45 Ethernet	USB + RJ45 Ethernet	USB + RJ45 Ethernet
Tachometry					
Customization capability level	L1 - Parameter adjustment			L2 - Configurable block assembly	
Speed measurement	Yes	SIL 2		SIL 2	
Speedometer output	Yes	SIL 2		SIL 2	
Speed thresholds	Yes	SIL 2		SIL 2	SIL 2 / SIL 4*
Overspeed protection	On request	On request		SIL 2	
Rollback protection				SIL 2	
Standstill monitoring	On request	On request		SIL 2	
Platform clearance zone detection	On request	SIL 2		SIL 2	
Driver vigilance monitoring	On request	On request		SIL 2	SIL 2 / SIL 4*
Any block assembly				SIL 2	
Safety certification standards		EN50126 • 50128 • 50129	EN50126 • 50128 • 50129		
Environment					
Electrical characteristics	24Vdc or 72-110Vdc	24-110Vdc	24Vdc or 72-110Vdc or 24Vdc-110Vdc	24Vdc-110Vdc	24Vdc-110Vdc
Mechanical characteristics	370 x 58 x 240 mm 3.5kg	325 x 68 x 265 mm 2 kg	290 x 103 x 270 mm 8 kg	323 x 133 x 275 mm 10 kg	483 x 133 x 275 mm 12 kg
Standards	IEC 60571 • IEC 62236-3-2 • IEC 62625 / EN 50155 • EN 50121-3-2 • EN 62625 / ERTMS Subset 27				

* SIL 4 : Only parameter adjustment

To discover everything TOM can do, contact:

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