

Data sheet





IRTS

Technical data

Туре	-	IRTS-8-P	IRTS-16-P		
System accuracy <u>#1</u>	°C	1.00			
Channel count	-	8	16		
Telemetry system					
Signal transmission	-	Optical (IR)			
Supported channel types	-	Temperature type K			
Measurement ranges	°C	-100+1,200			
Outputs	-	Voltage, CAN bus			
Channel per sensor board	-	2			
A/D converter per sensor board	-	2			
Number of sensor boards	-	4	8		
Data transmitting rate per channel	Hz	25			
Signal resolution	bit	16			
Connection type of sensor board	-	Cascadable bus system			
Measurement system accuracy per output type #1					
CAN output (in range 0 to 250 °C)	°C	1.00			
CAN output (in range -40 to 300 °C)	°C	1.00			
CAN output (outside of range)	°C	1.00			
Voltage output (in range 0 to 250 °C)	°C	1.00			
Voltage output (in range -40 to 300 °C)	°C	1.00			
Voltage output (outside of range)	°C	4.00			
Temperature ranges					
Operating temperature range (Sender)	°C	-20125			
Storage temperature range (Sender)	°C	-201	25		

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Туре	-	IRTS-8-P	IRTS-16-P		
System accuracy <u>#1</u>	°C	1.00			
Channel count	-	8	16		
Dimensions (standard) <u>#2</u>					
Width (Sender)	mm	45.2			
Length (Sender)	mm	19.0			
Height (Sender)	mm	5.5			
Width (Sensor board)	mm	42.	0		
Length (Sensor board)	mm	8.8	5		
Height (Sensor board)	mm	2.7			
Nominal sensitivity (range between minimum and maximum value)					
Voltage output	V	10.0 / 5.0 / 5.0 / 2.5			
Voltage signal range	V	-10.0010.00 / 0.0010.00 / -5.005.00 / 0.005.00			
Max. modulation range					
Voltage output	V	-12.012.0			
Miscellaneous					
Miscellaneous Available board materials	-	Inflexible /	/ Flexible		
Miscellaneous Available board materials Application examples	-	Inflexible / Integration in e-motor / Integratio on st	' Flexible n in two half shells for mounting naft		
Miscellaneous Available board materials Application examples Cold-junction compensation	-	Inflexible / Integration in e-motor / Integration on sh Ye	' Flexible n in two half shells for mounting naft s		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number	- - -	Inflexible / Integration in e-motor / Integration on sh Ye 10004339	' Flexible n in two half shells for mounting naft s 10004340		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU)	- - - -	Inflexible / Integration in e-motor / Integration on st Ye 10004339 TCU5-	r Flexible n in two half shells for mounting naft s 10004340 IRTS		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default)	- - - -	Inflexible / Integration in e-motor / Integration on sh Ye 10004339 TCU5-	r Flexible n in two half shells for mounting haft s 10004340 IRTS		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit	- - - -	Inflexible / Integration in e-motor / Integration on sh Ye 10004339 TCU5- TCU5-	r Flexible n in two half shells for mounting naft s 10004340 IRTS		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number	- - - - -	Inflexible / Integration in e-motor / Integration on st Ye 10004339 TCU5- TCU5- 10004	r Flexible n in two half shells for mounting s 10004340 IRTS IRTS		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number Configuration interfaces	- - - - -	Inflexible / Integration in e-motor / Integration on sh Ye 10004339 TCU5- TCU5- 10004 Ether	r Flexible n in two half shells for mounting haft s 10004340 IRTS IRTS IRTS		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number Configuration interfaces Nominal supply	- - - - - - - V (DC)	Inflexible / Integration in e-motor / Integration on sh Ye 10004339 TCU5- TCU5- 10004 Ether 24.0	r Flexible n in two half shells for mounting naft 10004340 IRTS IRTS IRTS IRTS IGMA IRTS IGMA IRTS IGMA IRTS IGMA IRTS IGMA IRTS IGMA IRTS IGMA IGM		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number Configuration interfaces Nominal supply Supply range #3	- - - - - - - V (DC) V (DC)	Inflexible / Integration in e-motor / Integration on st Ye 10004339 TCU5- TCU5- 10004 Ether 24.0	r Flexible n in two half shells for mounting naft s 10004340 IRTS IRTS IRTS IRTS I345 IRTS I345 IRTS		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number Configuration interfaces Nominal supply Supply range #3 Measure outputs	- - - - - - - V (DC) V (DC)	Inflexible / Inflexible / Integration in e-motor / Integration on sh Ye 10004339 TCU5- TCU5- 10004 Ether 24.0 23.00 Voltage / 0	r Flexible n in two half shells for mounting haft s 10004340 IRTS IRTS IRTS IAJ5 IGCO 25.00		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number Configuration interfaces Nominal supply Supply range #3 Measure outputs Number of voltage outputs	- - - - - - V (DC) V (DC) -	Inflexible / Integration in e-motor / Integration on sh Ye 10004339 TCU5- TCU5- 10004 Ether 24.0 23.00 Voltage / 0	r Flexible n in two half shells for mounting naft 10004340 IRTS IRTS IRTS IA45 IGUE IGU		
Miscellaneous Available board materials Application examples Cold-junction compensation Article number Compatible evaluation units (TCU) Evaluation unit (default) Name of evaluation unit Article number Configuration interfaces Nominal supply Supply range <u>#3</u> Measure outputs Number of RS422 (frequency) outputs	- - - - - - - - - - - - - - - - - - -	Inflexible / Integration in e-motor / Integration on st Ye 10004339 TCU5- TCU5- 10004 Ether 24.0 23.00 Voltage / 0	r Flexible n in two half shells for mounting naft s 10004340 IRTS IRTS IRTS IA45 ICAN bus		

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Remarks and information

Link no.	Торіс	Remark
#1	System accuracy	System accuracy defines the accuracy of the electronics and the data transfer system. Thermocouple accuracy is not included.
#2	Dimensions	Dimensions can be customized. Values given are default dimensions.
#3	Supply voltage	The supply voltage range must be given at measurement system side. Long wires can reduce the voltage level from power supply to measurement system.

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IRTS-8

IRTS

Drawing



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IRTS receiver

Drawing



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Half shells Ø60mm

Drawing



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Stator for Ø60mm

Drawing



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IRTS-16

IRTS

Drawing



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TCU5

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Drawing



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ATESTEO GmbH & Co. KG Konrad-Zuse-Straße 3 52477 Alsdorf Germany

Phone Email +49 (0) 2404 9870 - 0 info@atesteo.com

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