



SAE J1939



SAE J1939 Inquiry Form for IN88 (V 1.2)

Application	
Date	
Kübler Internal reference number (optional)	
Customer Name / Industry	
Description of Customer's Application	
1-Axis or 2-Axis variant	

J1939 NAME Specification			
Parameter	Customer-Specific Value	Suggested Value	Remark
Arbitrary Address Capable		0x1	
Industry Group		0	
Vehicle System Instance		0x5	
Vehicle System		0x4	
Function		2 (for 2 Axis variant) 1 (for 1 Axis variant)	
Function Instance		0x2	
ECU Instance		0x1	
Manufacturer Code		0x122	
Identity number		Lower 21 bits of Inclinometer Serial No.	21 bit

Measurement Data PGN Specification			
Parameter	Customer-Specific Value	Suggested Value	Remark
PGN Number for Measurement data transmission		0xFFAB	The PGN number can only be set during production at the Kübler factory
Priority		6	
EDP		0	
DP		0	
Transport Protocol	None BAM CMDT	None	
No. of transmitted data bytes		8	Max. is 8 for no transport protocol
PGN Cycle Time [ms]		100	Min. 5 ms for no transport protocol Min. 300 ms for BAM or CMDT

Inclinometer Measurement Data PGN Contents			
Parameter	Customer-Specific data type / length	Suggested data length	Data Type
Slope longitudinal		16 bit	signed
Slope lateral (only for 2-Axis Sensor)		16 bit	signed
Temperature		16 bit	signed
Sensor Information		16 bit	unsigned



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Inclinometer Configuration Options and Preconfiguration			
Parameter	Customer specific config	Suggested Value	Remark
PGN Number used for configuration data transfer		0xEF00	The PGN number can only be set during production at the Kübler factory
Inclinometer Address (Node ID)		0x20 (dec. 32)	
Resolution		10 (2 axis) 100 (1 axis)	Value ranges: 10: -8500 to +8500 (2 axis) 100: -850 to +850 (2 axis) 1000: -85 to +85 (2 axis) 100: 0 to 3599 (1 axis) 1000: 0 to 359 (1 axis)
Operating Parameters Longitudinal		0x02	0x0 = Inversion off / Scaling off 0x01 = Inversion on / Scaling off 0x02 = Inversion off / Scaling on 0x03 = Inversion on / Scaling on
Operating Parameters Lateral (only 2 axis variant)		0x02	0x0 = Inversion off / Scaling off 0x01 = Inversion on / Scaling off 0x02 = Inversion off / Scaling on 0x03 = Inversion on / Scaling on
Filter Config		6	0 = 0,1 Hz 1 = 0,3 Hz 2 = 0,5 Hz 3 = 1 Hz 4 = 2 Hz 5 = 5 Hz 6 = 10Hz 0x80 = Filter OFF
PGN cycle time [ms]		100	0 = no cyclic transmission 5 to 65534: Cyclic transmission time in ms
CAN bit rate		0	0 = 250 kbit/s 1 = 500 kbit/s
CAN Termination		1	1 = termination on 0 = termination off



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Further Information	
Remarks	
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