



SAE J1939



SAE J1939 Inquiry Form

Application	
Date	
Industry	
Description of Customer's Application	

J1939 NAME Specification			
Parameter	Requested Value	Default Value	Data Length
Inclinometer Node ID		0x14	
Arbitrary Address Capable		0x1	1 bit
Industry Group		0x5	3 bit
Vehicle System Instance		0	4 bit
Vehicle System		0	7 bit
Function		0x8e	8 bit
Function Instance		0	5 bit
ECU Instance		0	3 bit
Manufacturer Code		0x122	11 bit
Identity number		Lower 21 bits of Inclinometer Serial No.	21 bit

Measurement Data PGN Specification			
Parameter	Requested Value	Default Value	Remark
PGN, PGN No.		0xFF01	
PDU Format	PDU 1 PDU 2 Proprietary	PDU 1	
Priority		6	
Source		0x14	
PDU Specific		-	
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]		50	Min. 5 ms for no transport protocol Min. 300 ms for BAM or CMDT

Inclinometer Measurement Data PGN Contents			
Parameter	Requested value	Default Data Length	Data Type
Slope longitudinal		16 bit	signed
Slope lateral		16 bit	signed
Temperature		16 bit	signed
Sensor Information		16 bit	unsigned



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Inclinometer Configuration Options and Preconfiguration			
Parameter	Requested Value	Default Value	Remark
Inclinometer Address		0x	
PGN, PGN No.		0xFF02	
Resolution		10	10 100 1000
Operating Parameters Longitudinal		0x02	0x01 = Inversion on / Scaling off 0x02 = Inversion off / Scaling on 0x03 = Inversion on / Scaling on
Longitudinal preset control byte		-	0x01 = Set preset
Preset Value Longitudinal		-	
Operating Parameters Lateral		0x02	0x01 = Inversion on / Scaling off 0x02 = Inversion off / Scaling on 0x03 = Inversion on / Scaling on
Lateral preset control byte		-	0x01 = Set preset
Preset value longitudinal		-	
PGN cycle time [ms]		50	0 = no cyclic transmission 0xFFFF = no change
Change Node-ID		0x14	0xFF = no change
CAN bit rate		0	0 = 250 kbit/s 1 = 500 kbit/s 0xFF = no change
CAN Termination		1	1 = termination on 0 = termination off 0xFF = no change



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Setup PGN:

Can be sent to the inclinometer to apply and save the configuration and/or preset nonvolatile.

Preset:

The inclination can be set using the setup PGN with the „preset control byte(s)” active.

Further Information	
Remarks	
www.kuebler.com	

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