



aim arnold intelligente messsysteme



Data Acquisition Systems XXCH-DAS

SCH-DAS		
Typ	Einheit	Wert
Power supply		
Power supply	V	9...18
Current consumption without strain gauge bridges	mA	≈ 110
Amplifier input		
Adjustable bridge sensitivity*	$\frac{mV}{V}$	1...16, 100, 1000
Min. bridge resistance	Ω	120
Power supply bridge	V	5
Cutoff frequency f_g (-3db) at output rate of 4kHz**	Hz	≈ 1440
Output signal		
Resolution	Bit (signed INT)	16
Max. output rate	Hz	4000
Offsetshift per step	<i>Digit</i>	2000
Accuracy	%	typ. 0,1
Max. counter value (wrap around)	-	0x40000000
Dimension and cabling		
Outer dimensions		115x47x49(LxBxH)
Weight	mm	340g
IP Code	g	IP67
Plug connectors	-	
	<i>Souriau</i>	8STA0-1243PD
* Bridge shift of bridge sensitivity results in Full-Scale (± 32768) peak		
** Depending on the output rate ($f_g = 0.36 \cdot outputrate$)		

Data Acquisition Systems

XXCH-DAS

The analog-CAN data acquisition systems of the XXCH-DAS series have 4, 8, 12 or 16 independent, freely configurable amplifier channels for strain gauges bridges or high level signals. The synchronous sampled analog signals are output via CAN bus. In fact of the small design and the numerous settings, these systems can be used for various applications.

- Internal synchronous sampling of all channels with 1MHz
- Data output up to 4 kHz with 16 Bit (signed INT)
- Output rate configurable
- Bridge sensitivity configurable in 16 steps
- Auto offset and variable offset shift for each channel
- Full and half bridge switchable for each channel
- Data output and control via CAN interface
- CAN-IDs for data individually configurable
- Easy configuration via intuitive user interface
- Stores configuration settings even without supply voltage
- Robust, anodized and splash-proofed aluminium housing
- Status display with two bi-colour LEDs
- Counter input for quadrature signals
- Four input channels for thermocouples
- Six digital and two analog outputs
- Eight digital inputs with selectable threshold
- Current limit at short of bridge supply

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