



**General**

The DATaRec 4 Series represents a total modular data acquisition and signal conditioning concept which can be tailored to various applications. The modular design provides the basis to configure large multi channel systems as well as small systems for mobile applications. The DATaRec 4 Series is the result of a continuous and consequent development of data acquisition systems. Many years of expertise and experience in both the automotive as well as the flight test market have been the starting point for the development of the new family incorporating state of the art technology.

**Analogue signals**

HS310-0120	DIC24	24 analogue input channels up to 50 kS per channel AC, ICP™*	HS310-0030	CHG6	6 charge input channels up to 200 kS per channel with analogue low / high pass filter
HS310-0125	DIC24DC	24 analogue input channels up to 50 kS per channel DC	HS310-0030/1	CHG6	6 charge input channels up to 200 kS per channel with analogue low / high pass filter
HS310-0010	DIC6B	6 analogue input channels up to 200 kS per channel AC (0.2 Hz), DC, ICP™*	HS310-0060	DEBU	4 analogue input channels up to 200 kS per channel AC (0.2 Hz), DC, ICP™* + 2 ASE/EBU input channels with analogue low / high pass filter
HS310-0010/1	DIC6B	with analogue low / high pass filter	HS310-0660/1	DEBU	4 analogue input channels up to 200 kS per channel AC (2 Hz), DC, ICP™* + 2 ASE/EBU input channels with analogue low / high pass filter
HS310-0011	DIC6B	6 analogue input channels up to 200 kS per channel AC (2 Hz), DC, ICP™*	HS310-0061	DEBU	4 analogue input channels up to 200 kS per channel AC (2 Hz), DC, ICP™* + 2 ASE/EBU input channels with analogue low / high pass filter
HS310-0011/1	DIC6B	with analogue low / high pass filter	HS310-0061/1	DEBU	4 analogue input channels up to 200 kS per channel AC (2 Hz), DC, ICP™* + 2 ASE/EBU input channels with analogue low / high pass filter
HS310-0015	DIC6L	6 analogue input channels up to 200 kS per channel AC (0.2 Hz), DC, ICP™* differential input support	HS310-0140	SGU9 <sup>1)</sup>	9 analogue input channels for strain gauge up to 25 kS per channel
HS310-0015/1	DIC6L	with analogue low / high pass filter	HS310-0150	OUT6 <sup>1)</sup>	6 analogue output channels up to 200 kS per channel
			HS310-3390	ANH100	2 analogue input channels + 2 analogue output channels up to 25 MS per channel AC, DC
			HS310-3395	ANH101	1 analogue input channel + 1 analogue output channel up to 75 MS per channel AC, DC
			HS310-3360	VCR100	4 video input channels + 4 audio input channels up to 15 MBit/s data rate per channel MPEG-2 compression

# Technical Specification DATaRec 4 Signal Modules Overview

HS310-3380	VCP100	4 video output channels + 8 audio output channels up to 15 MBit/s data rate per channel MPEG-2 decompression	HS310-0130	CAN4	4 CAN input channels			
<b>Digital signals</b>			HS310-3300	ETH100	2 Ethernet input or output channels 10 T, 100 T, 1 Gbit/s			
			HS310-3060	ARR100	24 ARINC429 input channels	HS310-3035	MRG100	8 PCM input or output channels up to 30 Mbit/s through put, packed and unpacked mode
			HS310-3070	ARP100	24 ARINC429 output channels	HS310-3510	UAR100	8 dual-redundant channels MIL 1553 input channels
HS310-3260	ASM100	8 serial input or output channels 112.5 Baud – 230.4 Kbaud	HS310-3550	UAP100	8 dual-redundant channels MIL 1553 output channels			

## Applications



Miniature system  
Single module system with direct link to the PC via USB 2.0



Distributed data acquisition system  
Remotely located modules (up to 768 channels)



Compact system  
Centralized acquisition system with up to 768 channels



Distributed multi channel system  
Remotely located groups of modules (up to 768 channels)



GSS base system, up to six internal signal modules



Decentralized system  
Base system, module extender and external storage

<sup>1)</sup> currently under development



HEIM SYSTEMS GMBH

Friedrich-Ebert-Strasse / TechnologiePark – D-51429 Bergisch Gladbach  
Tel.: +49 2204 84 41 00 – Fax: +49 2204 84 41 99  
e-mail: info@heim-systems.de - http://www.heim-systems.com