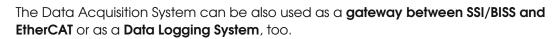


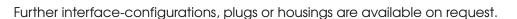


Modular Control System Data Acquisition System BISS/SSI

The Data Acquisition System of the Robot Makers GmbH enables synchronous and decentralized measuring with a variety of sensor systems at high measuring frequencies. The digital BISS/SSI interface enables a robust data transmission as well as the acquisition of different physical parameters by using sensors or adapters. Thus, the Data Acquisition System is predestined for use on inspection and test rigs where rapidly occuring processes have to be recorded. This applies, for example, at test rigs for the optimization of combustion engines.

The process data of the sensors are read in parallel and hardware-supported by a powerful FPGA. On request, an application-oriented data pre-processing like scaling and filtering via software or hardware can be realized. The data output is based on the real-time capable EtherCAT slave interface, which is also implemented in hardware. Therefore, high measuring speeds are possible and the data can be made accessible in the whole network.







Technical Data		
Attributes	RM-MCS-MEA-BOX	
Processor	FPGA with Nios II Processor (Altera)	
Hardware functions (FPGA)	BiSS/SSI Master, EtherCAT	
Fieldbus interface / output frequency	EtherCAT Slave / 1 kHz	
Nominal voltage / operating voltage	24 V / 12 V - 42 V	
Interface sensor	up to 8x BiSS or SSI (user-configurable)	
Import clock sensor	up to 10 Mbps (user-configurable)	
Process data resolution sensor	up to 32 bit (user-configurable) (64 bit on request)	
Power supply sensor	5 V (optional 12 V), max. 300 mA per Sensor	
Housing / protection	Aluminium box / IP 65	
Dimensions / weight	259 mm x 128 mm x 90 mm / ~2 kg	

Model	Description
RM-MCS-MEA-BOX-002 RM-MCS-MEA-BOX-012	Data Acquisition System, aluminium box, 4x SSI Data Acquisition System, aluminium box, 8x BiSS/SSI

technical changes reserved





