

New and individual front-end of the DATaRec 4 Series

DIC24X is a high-performance element of the front-end series DATaRec 4 allowing for completion of any measurement tasks by means of a single signal input module. DIC24X is exclusively available from HEAD acoustics GmbH.

DATaRec 4 is a rugged data acquisition system with signal conditioning. DIC24X is a new input module usable by itself as a complete and versatile multi-channel front-end, when connected to a power supply unit.

DIC24X has 24 input channels with a sampling frequency of up to 50 kHz each. Some of the channels are equipped with selectable DC coupling as well as with high-pass and low-pass filters, or can be configured as pulse inputs. This allows for both classical dynamic measurements and static or quasi-static measurements such as brake pressure. The selectable high-pass and low-pass filters allow recording without unwanted signal components. The pulse inputs operate at a 32-fold module sampling frequency and thus can be used for high-precision capture of e.g. engine rotation speed and vehicle speed.

DIC24X is easily integrated into existing system configurations with other modules of the DATaRec 4 series. If additional inputs are required, systems with up to 768 channels can be easily realized. DIC24X was developed by Zodiac Data Systems according to the specifications of HEAD acoustics GmbH and ideally meets the requirements of the market. It is exclusively available in the HEAD acoustics edition of the DATaRec 4 front-end series.



Figure 1: Signal input module DIC24X

About HEAD acoustics

HEAD acoustics has developed into one of the world's leading specialists in the fields of sound and vibration analyses and optimization. For more than 20 years HEAD acoustics has developed products and solutions for artificial head recording and playback technology, exceptional acquisition and analysis software and techniques, and communication measurement technology.