

## MAS MATCH-II-XDV SYSTEM

The latest **MAS MATCH-II-XDV Recorder**, a **powerful, directly recording, and self-governed** data recording system in **2 - 8 channels version**, is now available.

The **MAS MATCH-II-XDV** features a number of technical innovations.

**The most important characteristics of the new MAS MATCH-II-XDV Recorder are listed below:**

- Sampling rate up to 2000Hz per channel
- Software-adjustable measurement range of each analog input from  $\pm 1\text{mV}$  to  $\pm 10\text{V}$
- Direct connection of strain gauges full bridges and half bridges including of stabilised 5V supply
- Internal 3500hm quarter bridge supplement resistors (other values on request)
- 100Hz low-pass filter of 4th order (other values on request)
- 2 digital inputs
- Exchangeable data memory (SD, SDHC, MMC) up to 32 Gigabyte

The **MAS MATCH-II-XDV Recorder** stores the measured data directly in the inserted memory card (SD, SDHC, MMC).

The measured data **can instantly be visualised from the memory card with Diadem** or other Diadem-compatible software, e.g. with **Flexpro**.

In connection **with our innovative software analysis tools, fatigue life estimations and damage calculations** can be made easily and cost effective!

### NEW PRODUCT



**The following items are optionally available:**

- CAN-Bus interface
- Recording GPS-data
- ICP-acceleration sensor interface

# MAS MATCH-II-XDV

## Technical Data

### General

- Number of analog inputs 2...8
- Number of digital inputs 2
- CPU 16Bit @ 40MHz
- Program storage FLASH ROM, in-system programmable
- Measured data storage capacity 1,8MByte
- Logbook more than 16.000 entries
- Data retention 3V lithium battery, rechargeable
- Sensor supply 5V, 50mA per channel; smaller output voltage on request
- Data acquisition 16Bit analog/digital converter, up to 2000 samples per second, each channel

### Analog input

- Measuring range  $\pm 1\text{mV}$  to  $\pm 10\text{V}$  (full scale)
- Gain 6 hardware steps and software controlled fine adjustment
- Offset control software controlled, 7-fold of full scale reading maximum
- Input filter 100Hz Butterworth, 80dB/decade; other filters on request
- Input resistance  $\gg 10\text{M}\Omega$  ( $\pm 1\text{mV}$  bis  $\pm 100\text{mV}$ ),  $100,9\text{k}\Omega \pm 0,2\%$  ( $\pm 100\text{mV}$  bis  $\pm 10\text{V}$ )
- Common mode rejection@60Hz  $> 90\text{dB}$  (high gain),  $> 60\text{dB}$  (low gain)
- Half bridge extension for all DMS, separate activation via Software

### Digital input

- Trigger level  $\sim 2,1\text{V}$
- Hysteresis  $\sim 0,05\text{V}$
- Input voltage range -5 to 50V
- Input resistance 92k $\Omega$

### Other

- Indicators Status LEDstandby/running  
Card-LED  
Trans-LED
- Data memory MMC, SC, SDHC
- Format FAT16 and FAT32

### Power supply

- Supply voltage range 6,5V to 30V
- Supply current ca. 110mA, 8 channels without sensor

### Environmental conditions

- Temperature  $-30^{\circ}\text{C} \dots +65^{\circ}\text{C}$
- Humidity 0%...80%, not condensing

### Casing

- Size in inch (mm) 4 x 3,1 x 1,9 (102x80x49), incl. exterior connectors
- Connectors LEMO, series B0
- Weight 400 g (8 channels)
- Material Aluminium
- Sealing Ip54

Subject to technical alterations  
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**SWIFT GmbH is certified  
for aviation systems**

**Gesellschaft für Messwerterfassungs-Systeme mbH**

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