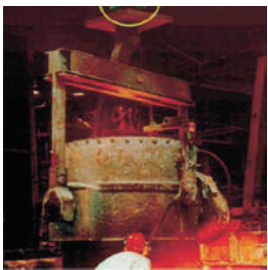


# MX08 Multichannel System

Digital weight data on to your fieldbus

- Modbus RTU
- Ethernet TCP/IP
- Modbus TCP
- Profibus DP
- Profinet
- EtherNet/IP
- EtherCAT
- Powerlink
- Digital I/O
- RS232
- RS485



## Features

- Communication: RS-232C, RS-485, Ethernet TCP/IP, Profibus, Modbus RTU, Modbus TCP, Profinet, EtherNet/IP, EtherCAT, Powerlink
- High speed: Up to 800 conv/sec.
- Anti-vibration filter: Adaptive antivibration active filter for fast and stable reading.
- Weighing functions: Taring, zeroing, AZT, power on zero, tare memory at power off, motion detection.
- eCal: Electronic calibration without test weights
- Software support: Windows based BAYKON xFace software for calibration and setup via PC
- Matched production: Direct replacement in Count mode without calibration
- Local display: Easy service and local indication in site.
- Digital I/O: Digital I/O's directly controlled by master PLC.

MX08 is a multichannel transmitter designed to integrate analog measuring data of multi weighing, force or torque measuring systems into control PLC/PC in proper digital data format. MX08 family is programmed and calibrated via PC by BAYKON xFace software. MX08 main advantages are; fast conversion rate, fast response and anti-vibration adaptive digital filter, weighing functions, powerful calibration facilities including eCal, calibration without test weight.

Fully matched production provides direct replacement without calibration in Count mode. The maximum configuration is; Fieldbus gateway, up to 8 Analog Digitizer, 8 Digital I/O units, Local Display unit. DIN rail installation provides easy montage.

# MX08 Specifications

MX08 Series Instruments	MX08 AD: Analog Digitizer unit MX08 EN : Ethernet TCP/IP -Modbus TCP MX08 MB: Modbus RTU Gateway MX08 PB : Profibus Gateway MX08 PN : Profinet Gateway	MX08 EI : EtherNet/IP MX08 EC : EtherCAT MX08 PL : Powerlink MX08 IO : Digital I/O MX08 DP : Display
<b>A/D Converter</b>		
Type	24 bit Delta-Sigma ratiometric with integral analog and digital filters	
Conversion rate	Up to 800 measurements per second	
Minimum input voltage	< 1 mV	
Minimum input sensitivity	0.1 µV per interval	
Analogue input range	0 mV to 18 mV unipolar or -18 mV to 18 mV bipolar	
Linearity	Within 0.0015% FS, 2 ppm/°C	
Resolution	Internal up to 16 000 000; External up to 100 000 counts in Weighing / Force modes, 1 000 000 counts for unipolar input and for selected range in Count mode and 2 000 000 counts for bipolar input and for selected range in Count mode	
<b>Scale Calibration and Functions</b>		
Calibration	By etalon weights: via xFace software or fieldbus eCal : Electronic calibration without etalon weights via xFace Count mode : No calibration. All instruments are adjusted in production for high calibration accuracy	
Digital filter	10 step adjustable digital adaptive filter	
Weighing functions	Tare, zero, auto zero tracking, motion detection, auto-zero at power-up tare memory at power off	
<b>Load Cell</b>		
Excitation	5 VDC, max. 100 mA	
Number of load cells	Up to 6 load cells 350 Ω or 18 load cells 1100 Ω in parallel	
Connection	4 or 6 wire technique. Cable length 274 m/mm <sup>2</sup> for 6 wire connection	
<b>Communication</b>		
Serial Interface RS-232C	9600 baud, 8 None 1	
Serial Interface RS-485 (only MX08 MB)	1200 to 57600 baud, 7 even/odd, 8 None 1 demand (BSI mode) or Modbus RTU	
Modbus RTU interface (only MX08 MB)	Up to 31 units on the bus, Baudrate up to 57600	
Modbus TCP and Ethernet TCP/IP(only MX08 EN)	10Mbits (half duplex), galvanically isolated	
Profibus DP V1 interface (only MX08 PB)	9,6 kbits/s to 12 Mbits/s automatic	
Profinet interface (only MX08 PN)	100Mbits (full duplex), galvanically isolated	
EtherNet/IP (MX08 EI)	10 Mbit/s or 100 Mbit/s, full duplex, galvanically isolated Addressing: Assign DHCP or manual IP with PC software	
EtherCAT (MX08 EC)	100 Mbit/s, full duplex, galvanically isolated	
Powerlink (MX08 PL)	100Mbit/s, half duplex	
Digital Input (only MX08 IO)	4 opto isolated inputs. Communication via Gateway unit.	
Digital Output (only MX08 IO)	4 relay contact NO output. 1A@250VAC or 30VDC. Communication via Gateway unit.	
<b>Power Supply and Others</b>		
Power Supply	10 to 28 VDC, max. 100 mA (MX08 AD, MX08 IO, MX08 DP, MX08 MB), max. 300 mA (others)	
Enclosure	Polyamide, for DIN-rail mount, protection class IP20	
Operation Conditions	Between -15 °C and +55 °C at 85% RH max, non-condensing	

## Typical Application

