MS55-D Inputs List

	TYPES OF LOGGER INPUTS Inputs marked with asterisk (*) are available also as galvanically isolated - see notes below table.			
Numb.	**Type**	**Measured value**	**Accuracy**	**Note**
M1001	A0	dc current 4 to 20 mA	±0.1% FS	With source approximately 21V for two-wire transducers with current loop (e.g. temperature and humidity transducers Comet). Only galvanic not isolated.
M1002	A1*	dc current 4 to 20 mA	±0.1% FS	for passive sensing of current
M1003	B0*	dc current 0 to 20mA	±0.1% FS	
M1004	B1*	dc current 0 to 1A	±0.1% FS	
M1005	B2*	dc current 0 to 5A	±0.1% FS	
M1006	C0	ac current 0 to 20mA	±1% FS	galvanic isolated only
M1007	C1	ac current 0 to 1A	±1% FS	galvanic isolated only
M1008	C2	ac current 0 to 5A	±1% FS	galvanic isolated only
M1009	D0*	dc voltage 0 to 100mV	±0.1% FS	
M1010	D1*	dc voltage 0 to 1V	±0.1% FS	
M1011	D2*	dc voltage 0 to 10V	±0.1% FS	
M1056	D5*	dc voltage -10V to +10V	±0,1% FS (± 20 mV)	
M1055	D4*	dc voltage 0 to 75V	±0.1% FS	
M1013	E0	ac voltage 0 to 100mV	±1% FS	galvanic isolated only
M1014	E1	ac voltage 0 to 1V	±1% FS	galvanic isolated only
M1015	E2	ac voltage 0 to 10V	±1% FS	galvanic isolated only
M1059	E4	ac voltage 0 to 50V	±1% FS	galvanically isolated
M1017	F*	measurement of resistance (specify the range)	±0.1% FS	two-wire connection
M1018	J*	input for Nickel RTD temperature sensor Ni1000, 6180 ppm/°C, range -50 to +250°C	-50 to 100°C ±0.2°C 100 to 250°C ±0.2% from reading	
M1019	K*	input for Platinum RTD temperature sensor Pt100, range -140 to +600°C	-140 to+100°C ±0.2°C 100 to 600°C ±0.2% from reading	two-wire connection
M1020	K1*	input for Platinum RTD temperature sensor Pt1000, range -140 to +600°C	-140 to+100°C ±0.2°C 100 to 600°C ±0.2% from reading	two-wire connection

		TYPES OF LOGGER INPUTS Inputs marked with asterisk (*) are available also as galvanically isolated - see notes below table.		
Numb.	**Type**	**Measured value**	**Accuracy**	**Note**
M1060	K3	precise input for Platinum RTD temperature sensor Pt1000 range -10 to +50°C	±0.06°C	Two-wire connection. Only galvanically not isolated.
M1021	N*	thermocouple K (NiCr-Ni) range -70 to +1300°C	±0.3% from reading + 1.5°C	linearized, cold junction compensation
M1054	T*	thermocouple T (Cu-CuNi) range -200 to +400°C	±0.3% from reading + 1.5°C	linearized, cold junction compensation
M1022	O*	thermocouple J (Fe-Co) range -200 to 750°C	±0.3% from reading + 1.5°C	linearized, cold junction compensation
M1023	P*	thermocouple S (Pt10%Rh-Pt), range 0 to 1700°C	±0.3% from reading + 1.5°C from +200 to +1700°C	linearized, cold junction compensation
M1024	Q*	thermocouple B (Pt30%Rh-Pt), range +100 to +1800°C	±0.3% from reading + 1.0°C from +300 to +1800°C	linearized, without cold junction compensation

M1041	S*	binary input for potential-less contacts	maximum resistance of closed contact: 1000 ohms minimum duration for recording: 200ms
M1042	S1	binary voltage input	voltage for "switched ON" state: 3 to 30Vdc, input current in the"switched ON" state: 1 to 9mA-depending on the applied voltage, minimum duration for indication of change: 200ms, galvanic isolated
M1044	CTU	counter input for voltage signal	voltage for "HIGH" state (for counter status change): 3 to 24Vdc maximum pulse frequency 5kHz, backed-up operation, galvanic isolated
M1045	CTK	counter input for potential-less contacts and open collector	maximum pulse frequency 5kHz, programmable filter of pulse ringing, backed-up operation during power mains failure, maximum resistance of closed contact: 10 kohms minimum resistance of open contact: 250 kohms, galvanic unisolated
M1047	FU	input for measurement of frequency of voltage signal	0 to 5kHz, resolution 1Hz, accuracy ±(0.2% from reading + 1Hz) input voltage for state "H": 3 to 24Vdc input current in state "H": approximately 7mA minimum duration of input impuls: 30us, galvanic isolated
M1048	FK	input for measurement of frequency of contact switching	0 to 5kHz, resolution 1Hz, accuracy ±(0.2% from reading + 1Hz) maximum resistance of closed contact: 10 kohms minimum resistance of open contact: 250 kohms, minimum duration of input pulse: 30us, galvanic unisolated
M1061	RP	input for serial signal RS485 for devices supporting Modbus RTU or Advantech protocol	E.g. measurement from Comet Tx41x temperature, humidity, pressure, transmitters. Only devices using same communication protocol and same communication speed can be connected to one RP module. Maximum speed 115200Bd. Galvanic isolated.

Notes:
Inputs marked (*) are not **galvanic isolated** and have common ground.
These inputs are available also as galvanic isolated.
Galvanic isolated analog inputs are marked with letter G following the name of input type (e.g.
input for passive measurement of current 4-20mA - type A1 - with galvanic isolation is marked **A1G**).
Galvanic isolation is not designed as safety protection.