***HAEHNE* Amplifier**		**MV125**	**AME2**	**DMA3**	**CA-A_**	**CA-IO**	**CA-USB**	**Busbox __**	**DA-__**	**MAC4.0**	**DCM**	**DCX**
Channels		1	1	1	1	1	1	1	1 / 2 opt._DA-2__	1	2	2 - 8 opt.
Analog output signals	-10…0…+10V	2	2	2	Variant U	-	-	-	-	3	4	4 or 8 opt.
	4…20mA	Variant C	Variant C	Variant C	Variant C	-	-	-	-	Variant C	up to 2 opt.	up to 8 opt.
	0…20mA	Variant N	Variant N	Variant N	-	-	-	-	-	Variant N	up to 2 opt.	up to 8 opt.
	Amplification min	400	400	250	20					400	100	100
	Amplification max	3200	3200	4000	4000					3200	30000	30000
	Output fast (direct)	5ms	<2ms	1ms	<1ms					7ms - 145ms	1,5ms - 9999ms	1,5ms - 9999ms
	Output slow (filtered)	2s	50ms - 2s	2s	-					130ms - 4,8s		
	Current output (direct/filtered)	Jumper	„Standard: direct _D: filtered“	Menu	-					Wiring	Freely adjustable	Freely adjustable
Digital output signals		-	-	-	-	IO-Link	USB	P2: Profibus DP D: DeviceNet C: CANopen	**PN: ProfiNet** **PB: Profibus** **EN: Ethernet/IP** EC: EtherCAT	-	-	Optional CO: CANopen CC: CC-Link DN: DeviceNet **EN: EtherNet/IP** EC: EtherCAT MT: Modbus-TCP **PB: Profibus** **PN: Profinet IO**
	Transmission rate					3ms	max. 5 kHz	P2: 3ms D: 8ms C: 2ms	6ms			10 ms
	Resuolution					16bit	up to 16bit	P2: 3ms D: 8ms C: 2ms	16 bit			16bit
Strain gauge excitation voltage	Voltage	10V	10V	10V / 5V opt. J	5V	2,5V	4V	4,5	10V /5v opt. J	10V	10V /5v opt. J	10V /5v opt. J
	max. current [mA]	60 Option E: 160	60 Option E: 160	160	U: 5 C: 14,3	7,2	20	18	160	60 Option E: 160	160	opt. 4x 160
	min. total resistance of the sensors (parallel connection) [Ohm]	170 Option E: 62,5	170 Option E: 62,5	62,5	U: 1000 C: 350	350	200	250	62,5	170 Option E: 62,5	62,5	up to 4x 62,5
Measured value capturing	analog	x	x	-	x	-	-	-	-	x	-	-
	digital	-	-	24-Bit Σ-Δ	-	24-Bit Σ-Δ	16-bit SAR	16-bit SAR	24-Bit Σ-Δ	-	24-Bit Σ-Δ	24-Bit Σ-Δ
	Cycle time			0,5ms		1ms	0,2ms		0,5ms		0,52ms	0,52ms
Nominal rating [mV/V] 100%	min	0,3125	0,3125	0,25	0,25	0,2	0,5	0,35	0,35	0,3125	0,05	0,05
	max	2,5	2,5	4	50	3 /X2: 10	3	3	3	2,5	4	4
Operation with Ex-protection sensors		-	●	●	-	-	-	●	●	●	●	●
Housing	Field housing	x	-	●	x	x	x	x	●	-	●	●
	Housing for standard rail	-	x	x	-	-	-	PS2	x	x	x	x
	Front panel mounting	-	-	●	-	-	-	-	-	-	●	-
	Protection class	IP65	IP20	IP20 / IP67 opt	IP67	IP67	IP67	IP67	IP20 / IP67 opt	IP20	IP20 / IP67 opt	IP20 / IP67 opt
Supply voltage	Voltage	24V DC, +-10%	24V DC, +-4V	24V DC, 9-36V	24V DC, 14-27 V	24V DC, 18-30V	4-6V DC (USB)	24V DC, 20,5-30V	24V DC, 9-36V	24V DC, +-10%	24V DC, +-10%	24V DC, opt. 110-240V AC
Display		Analog -> MV128	-	Digital	-	-	-	-	-	-	Digital	Digital
Adjustment	Potentiometers	x	x	-	-	-	-	-	-	x	-	-
	Menu guided	-	-	x	-	(x)	(x)	-	-	-	x	Touch display
Temperature range	min. °C	0	0	0	-40	0	0	0	0	0	0	0
	max °C	60	60	60	85	60	50	60	60	60	60	60
Limit switch		2 -> MV127	-	-	-	-	-	-	-	-	2	8 opt.
Angle correction		-	-	-	-	-	-	-	-	-	x	x
PID-controller		-	-	-	-	-	-	-	-	1	1 (2 equal)	8
Digital inputs		-	-	-	-	-	-	-	-	4	4	8 opt.
Reference voltage		-	-	-	-	-	-	-	-	10V	10V	10V
Legend	x = Standard	(x) = Software	● = optional	- = not possible								