



HOMMEL-ETAMIC PS100

Flexible solution for efficient industrial measurement data logging

The individual probe satellites can be combined with one another as required and offer various connections.

For data processing work, the probe satellites are connected to a HOMMEL-ETAMIC vega or HOMMEL-ETAMIC sirius system.

- Maximum of 16 gage heads per probe satellite
- Synchronization of measurement data logging (trigger, 500 KHz)
- Buffered logging without data loss
- Innovative and fast connecting system between probe satellites without cabling



HOMMEL-ETAMIC PS100



HOMMEL-ETAMIC PS50 and PS100 cluster:
innovative connecting system

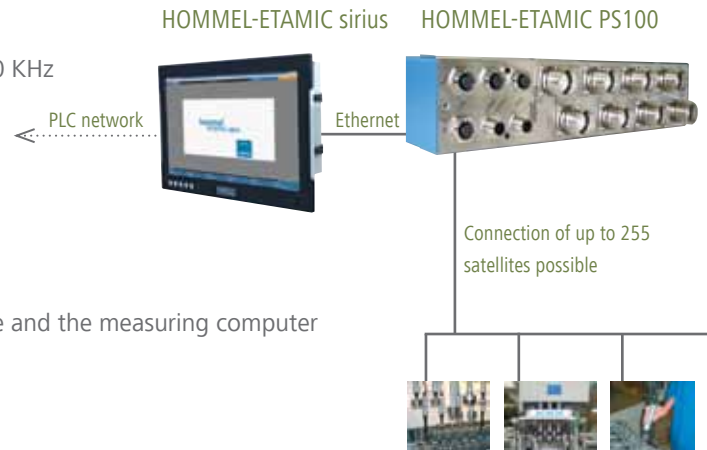
HOMMEL-ETAMIC PS100

High level of performance for dynamic measurements

- Precision measuring amplifier
- Integrated, dynamic and permanent memory
- Dynamic measurements with data rates of up to 500 KHz
- Time-synchronous recording of measured values ($\Delta t < 0.1$ ms) for all connected probes
- Sophisticated trigger functions (including pre-trigger and trend monitoring)

Rapid communication for flexible configurations

- 100-Mbps Ethernet connection between the satellite and the measuring computer
- Systems with up to 255 satellites possible
- Ethernet cable lengths of up to 100 m



Technical data

Ethernet	100-Mbps switch
Power supply	24 V DC \pm 20 %
Protection class	IP54
Operating conditions	0 °C to +45 °C, max. 80 % relative humidity
Dimensions	B x T x H = 295 x 150 x 65 mm
Weight	2.2 - 2.7 kg (depending on type)

Connection-specific data

	PS100-16-LVDT	PS100-16-HBT	PS100-16-4/20	PS100-16-AV
Number of inputs	16	16	16	16
Type of inputs	full bridge	half bridge	voltage	voltage
Resolution	16-bit	16-bit	16-bit	16-bit
Measuring range	scalable	scalable	4 - 20 mA	\pm 10 V
Sensitivity (mV)	150 mV/ V/ mm	73.75 mV/ V/ mm	-	-
Oscillator frequency	5 KHz	10 KHz	-	-
Taster-Speisespannung	3.2 V	3.2 V	-	-
MPE (at an ambient temperature of +20 °C)	\pm 0.1 % from measuring range	\pm 0.1 % from measuring range	\pm 0.1 % from measuring range	\pm 0.3 % from measuring range
Trigger	500 KHz	500 KHz	500 KHz	500 KHz

	PS100-8-D	PS100-8-4/20-4-D	PS100-8-L-4-D	PS100-8-4/20-8-L
Number of inputs/outputs	8	8 + 4	8 + 4	4 + 16/16
Type of inputs/outputs	incremental	voltage + incremental	LVDT + incremental	LVDT + relay in/outputs
Resolution	32-bit counter	16-bit/32-bit	16-bit/32-bit	16-bit/n.a.
Measuring range	-	4 - 20 mA /-	scalable/-	scalable/-
Sensitivity (mV)	-	-	150 mV/ V/ mm/-	150 mV/ V/ mm/-
Oscillator frequency	-	-	5 KHz	5 KHz
Probe supply voltage	-	-	3.2 V	3.2 V
MPE (at an ambient temperature of +20 °C)	-	\pm 0.1 % from measuring range	\pm 0.1 % from measuring range	\pm 0.1 % from measuring range
Trigger	1 MHz	500 KHz	500 KHz	500 KHz

	PS100-128-DIO/P	PS100-128-DIO/R
Number of inputs/outputs	64/64	64/64
Type of inputs/outputs	opto/PNP	opto/relay
Outout frequency	1 KHz	500 Hz
Power supply/switching currents for digital outputs	4 A / 0 - 500 mA (24 V DC \pm 20 %)	4 A / 0 - 500 mA (24 V DC \pm 20 %)



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