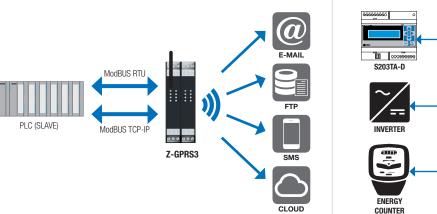
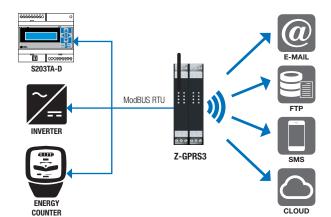
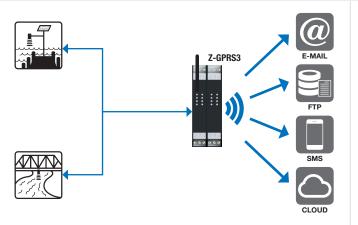
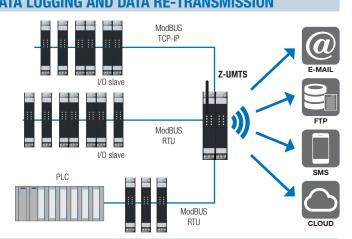
## **Application notes**

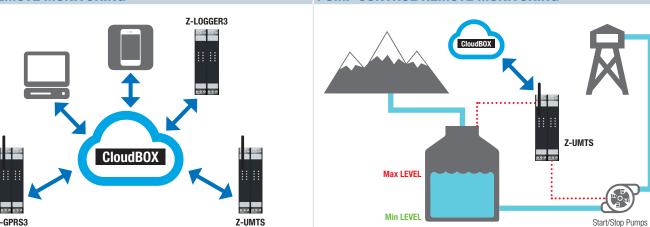
# ModBUS TCP-IP ModBUS RTU











## **Technical data**

		Z-LOGGER3		Z-GPRS3	3	Z-UMTS		
		Datalogger with built-in I/O and alarm management		GPRS Datalogger wi netry functions, voic		3G+ Datalogger with built-in I/O, telemetry functions, voice commands		
GENERAL DATA								
Power Supply		1140 Vdc/ 1928 Vac		:/ 1928 Vac		1940 Vdc/ 1928 Vac		
Power Transducers		Yes	Yes			Yes		
Power Consumption		Max 3,5 W	Max 6,5 W			Max 6,5 W		
Built-in UPS		Yes (approx battery life time 60')		x battery life time 60')		Yes (approx battery life time 60')		
On/Off button		Yes	Yes			Yes		
SD extraction button		Yes	Yes			Yes		
Voice alarms nd DTMF commands		No	Yes			Yes		
Isolation		1.500 Vac	1.500 Vac			1.500 Vac		
Protection degree		IP20	IP20			IP20		
LED status indicators	3	I/O - Communication (Rx/Tx) IP connection - Power supply	I/O - Comn	nunication (Rx/Tx)	lv.	I/O - Communication (Rx/Tx) GSM / IP connection - Power supply		
Operating temperatur	re	-10+50°C	-10+50°	/ IP connection - Power supply +50°C		-10+50°C		
Weight		250 g	280 g			280 g		
Dimension (wxhxd)		100 x 112 x 35 mm	100 x 112	x 35 mm		100 x 112 x 35 mm		
Installation		DIN rail	DIN rail			DIN rail		
I/O DATA								
Digital Input		Nr 4 PNP, NPN channels (counters @32bit up to 30	Nr 4 PNP, N	NPN channels (counters	@32bit up to 30	Nr 4 PNP, NPN channels (counters @32bit up to 30		
• •		Hz)	Hz)			Hz)		
Analog Input Digital Output		Nr 2 channels, range 020 mA, 030 V, 16 bit Nr 2 relay channels SPDT max 2 A 250 Vac		iels, range 020 mA, 0. channels SPDT max 2 A		Nr 2 channels, range 020 mA, 030 V, 16 bit Nr 2 relay channels SPDT max 2 A 250 Vac		
• •		NI Z Telay Chamileis SFDT max 2 A 230 Vac	INI Z TEIdy (	LIIdilliels SEDT IIIdx Z A	. 200 vac	NI Z Telay Chamileis SFDT max 2 A 230 vac		
COMMUNICATION		10/100 Mb /D IAE)	40/400 MI	(D.145)		10/100 Mb (D 145)		
Ethernet Interface		10/100 Mbps (RJ45)	10/100 Mb	,	aud rata Maatar	10/100 Mbps (RJ45)		
#1 Serial Interface #2 Serial Interface		RS485 ModBUS, programmable baud rate, Master RS485, programmable baud, on terminals		dBUS, programmable ba ogrammable baud, on te		RS485 ModBUS, programmable baud rate, Master RS485, programmable baud, on terminals		
USB interface		Micro USB type B HOST (local prog.)	Micro USB type B HOST (local prog.)			Micro USB type B HOST (local prog.)		
System protocols	Ftp, Smtp, http, ModBUS TCP, ModBUS RTU, HTTP  Ftp, Smtp, http, ModBUS TCP, ModBUS RTU, HTTP			Ftp, Smtp, http, ModBUS TCP, ModBUS RTU, HTTP				
		r tp) omtp) mtp, modboo i or, modboo iii o, iii ii	GSM/GPRS Quad Band 850/900/ 1800/1900 MHz			UMTS/HSPA+ 900/2100MHz (standard) UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz		
wouem		-	GSM/GPRS	Quad Band 850/900/	1800/1900 MHz	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz		
	MORY	-	GSM/GPRS	S Quad Band 850/900/	1800/1900 MHz	UMTS/HSPA+ 850/1900/2100 MHz (option)		
PROCESSING, ME		- ARM 32 hit K64 120 MHz			1800/1900 MHz	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)		
<b>Processing, Me</b> CPU		- ARM 32 bit K64 120 MHz Si	ARM 32 bit	t K64 120 MHz	1800/1900 MHz	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard) ARM 32 bit K64 120 MHz		
PROCESSING, ME CPU RTOS Multitasking		- ARM 32 bit K64 120 MHz Sì 8 MB			1800/1900 MHz	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)		
PROCESSING, ME CPU RTOS Multitasking Flash (serial)		Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32	ARM 32 bit Si 8 MB Supplied M	t K64 120 MHz licro SD (up to 4 GB) ex		UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory		Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot)	ARM 32 bit Si 8 MB Supplied M GB (dedica	t K64 120 MHz licro SD (up to 4 GB) ex ted slot)	pandable up to 32	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot)		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory		Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and Fi	t K64 120 MHz licro SD (up to 4 GB) ext ted slot) ents, alarms, events, lo las Memory	pandable up to 32	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32		
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PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server	gger ogger eks	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ted slot) ents, alarms, events, lo las Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM,	pandable up to 32 gging on Micro SD t frequency 1 Hz Public IP SIM	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server	gger ogger eks	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Built Yes, on Eth GSM/GPRS commands	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ented slot) las Alems, events, lotals Memory ime, min 60s ligered-events, max input t-in I/Os er data exchange, alam, is, evens, ftp/email send,	pandable up to 32 gging on Micro SD t frequency 1 Hz Public IP SIM management,	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftb/email send, http		
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PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server	gger ogger eks device	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and Fi Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and re channels, t manageme Firmware a webserver	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s igered-events, max inpu  t-in I/Os ernet, APN Private SIM, c data exchange, alarm is, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and int and remote configuration CP-IP, ftp, webserver, htt	pandable up to 32 gging on Micro SD t frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations n update via ftp and	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions		
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PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni	gger ggger kks device	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ted slot) ted slot) ted slot (up to 4 GB) exted slot) las Memory ime, min 60s gered-events, max inpu  t-in I/Os ternet, APN Private SIM, data exchange, alarm in, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and int and remote configuration  CP-IP, ftp, webserver, ht ions system, Ethernet comm	pandable up to 32 gging on Micro SD t frequency 1 Hz  Public IP SIM management, http tvariables, I/O bit operations n update via ftp and tp functions nunication alarm	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block SEAL) Nr max variables per Web Server Librerie e funzioni	gger ggger kks device	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s ligered-events, max inpu  t-in I/Os ernet, APN Private SIM, erneta exchange, alarm is, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent ind remote configuration  CP-IP, ftp, webserver, ht lions	pandable up to 32 gging on Micro SD t frequency 1 Hz  Public IP SIM management, http tvariables, I/O bit operations n update via ftp and tp functions nunication alarm	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si  8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms ORDER CODES	gger ogger eks device	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s ligered-events, max inpu  t-in I/Os lernet, APN Private SIM, data exchange, alarm license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/Ethern hresholds, controls and ent license, they'email send, al-time ModBUS/E	pandable up to 32 gging on Micro SD t frequency 1 Hz  Public IP SIM management, http tvariables, I/O bit operations n update via ftp and tp functions nunication alarm	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalo PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms ORDER CODES Code	gger ogger eks device	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ented slot) ented slot) ented slot) ented slot) ented slot) ented slot) enter min 60s igered-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, and private slot, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Private SIM, gread-events, max input  t-in I/Os ernet, APN Pri	pandable up to 32 gging on Micro SD  It frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations in update via ftp and ttp functions nunication alarm 60950  Description	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code Z-LOGGER3	gger gger eks device	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ted slot) ted slot) ted slot (up to 4 GB) exted slot) las Memory ime, min 60s gered-events, max inpu  t-in I/Os ternet, APN Private SIM, data exchange, alarm in, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and int and remote configuration  CP-IP, ftp, webserver, ht ions a system, Ethernet comn  1, EN 301489-1/7, EN 6	pandable up to 32 gging on Micro SD t frequency 1 Hz  Public IP SIM management, http det variables, I/O bit operations n update via ftp and tp functions nunication alarm  50950  Description Micro SD memory card	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code Z-LOGGER3 Z-GPRS3	gger gger kks device  Descrip Advanced GSM/GPF	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  Stion d datalogger, alarm module, web server with built-in IO 38 datalogger with built-in IOs, telecontrol functions, voice a	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) less Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM, data exchange, alarm in, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and int ind remote configuration  CP-IP, ftp, webserver, ht ions system, Ethernet comm  I, EN 301489-1/7, EN 6  Code MSD Z-PC-DIN1-35	pandable up to 32 gging on Micro SD t frequency 1 Hz  Public IP SIM management, http det variables, I/O bit operations n update via ftp and tp functions nunication alarm 50950  Description Micro SD memory card DIN rail bus system 1	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code Z-LOGGER3 Z-GPRS3 Z-UMTS	Descrip Advanced GSM/GPF 3G+ data	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  Ition d datalogger, alarm module, web server with built-in IO RS datalogger with built-in IOs, telecontrol functions, voice alarm	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) las Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM, data exchange, alarm i, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent ind remote configuration  CP-IP, ftp, webserver, ht ions s system, Ethernet comm  I, EN 301489-1/7, EN 6  Code MSD Z-PC-DIN1-35 Z-PC-DIN1-35 Z-PC-DIN1-35	pandable up to 32 gging on Micro SD  t frequency 1 Hz  Public IP SIM management, http det variables, I/O bit operations n update via ftp and tp functions nunication alarm  80950  Description Micro SD memory card DIN rail bus system I	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http. Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950  with adapter slot 35 mm lead terminal + 1 slot 35 mm		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code 2-LOGGER3 2-GPRS3 2-UMTS CLOUD BOX	Descrip Advancet GSM/GPF 3G+ data Micro Sca	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  Ation d datalogger, alarm module, web server with built-in IO as datalogger with built-in IOs, telecontrol functions, voice alarm ada / Industrial IoT Box	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) las Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM, data exchange, alarm i, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent ind remote configuration CP-IP, ftp, webserver, ht ions i, system, Ethernet comm I, EN 301489-1/7, EN 6  Code MSD Z-PC-DIN1-35 Z-PC-DINAL1-35 CU-A-MICROB	pandable up to 32 gging on Micro SD  t frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations n update via ftp and tp functions nunication alarm  50950  Description Micro SD memory card DIN rail bus system 1 USB-A Micro USB-B	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950  with adapter slot 35 mm tead terminal + 1 slot 35 mm 5 P plug cable		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code Z-LOGGER3 Z-GPRS3 Z-UMTS CLOUD BOX A-GSM	Descrip Advanced GSM/GPP 3G+ data Micro Sca Dual band	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  Intion d datalogger, alarm module, web server with built-in IO RS datalogger with built-in IOs, telecontrol functions, voice a alogger with built-in IOs, telecontrol functions, voice alarm ada / Industrial IoT Box d swing GSM external antenna, cable 3,2 m, SMA	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM, 6 data exchange, alarm 1, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent ind remote configuration CP-IP, ftp, webserver, ht ions 1, EN 301489-1/7, EN 6  Code MSD Z-PC-DIN1-35 Z-PC-DINAL1-35 CU-A-MICROB CU-A-MICROB CU-A-MICROB-CU-A-MICROB-CU-A-MICROB-CU-A-MICROB-CUTS  Let GB)  Ed GB)  Experiments  MHz  MHz  MSD  MSD  MSD  MSD  MSD  MSD  MSD  MS	pandable up to 32 gging on Micro SD  t frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations n update via ftp and tp functions nunication alarm  50950  Description Micro SD memory card DIN rail bus system i USB-A Micro USB-B Micro USB OTG to USB	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950  with adapter slot 35 mm lead terminal + 1 slot 35 mm 5 P plug cable SB Type A (female) Adapter Cable		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code Z-LOGGER3 Z-GPRS3 Z-UMTS CLOUD BOX A-GSM A-GSM A-GSM-DIR-5M	Descrip Advancet GSM/GPF 3G+ data Micro Sca Dual banu GSM-DEC	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  Intion d datalogger, alarm module, web server with built-in IO 35 datalogger with built-in IOs, telecontrol functions, voice a alogger with built-in IOs, telecontrol functions, voice alarm and / Industrial IoT Box d swing GSM external antenna, cable 3,2 m, SMA CT-UMTS directive compact antenna	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s ggered-events, max inpu  t-in I/Os ernet, APN Private SIM, 6 data exchange, alarm is, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent und remote configuration CP-IP, ftp, webserver, ht ions 1, EN 301489-1/7, EN 6  Code MSD Z-PC-DINAL1-35 Z-PC-DINAL1-35 CU-A-MICROB CU-A-MICROB CU-A-MICROB CU-A-MICRO-OTG Z-SUPPLY	pandable up to 32 gging on Micro SD  t frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations n update via ftp and tp functions nunication alarm  50950  Description Micro SD memory card DIN rail bus system i USB-A Micro USB-B Micro USB OTG to USB	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Etherne  EN 301511, EN 301489-1/7, EN 60950  with adapter slot 35 mm tead terminal + 1 slot 35 mm 5 P plug cable		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms  ORDER CODES Code Z-LOGGER3 Z-GPRS3 Z-UMTS CLOUD BOX A-GSM A-GSM-DIR-5M A-GSM-OMNIDIR	Descrip Advanced GSM-DEC GSM-UMT	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  Intion d datalogger, alarm module, web server with built-in IO RS datalogger with built-in IOs, telecontrol functions, voice a alogger with built-in IOs, telecontrol functions, voice alarm ada / Industrial IoT Box d swing GSM external antenna, cable 3,2 m, SMA	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM, 6 data exchange, alarm 1, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent ind remote configuration CP-IP, ftp, webserver, ht ions 1, EN 301489-1/7, EN 6  Code MSD Z-PC-DIN1-35 Z-PC-DINAL1-35 CU-A-MICROB CU-A-MICROB CU-A-MICROB-CU-A-MICROB-CU-A-MICROB-CU-A-MICROB-CUTS  Let GB)  Ed GB)  Experiments  MHz  MHz  MSD  MSD  MSD  MSD  MSD  MSD  MSD  MS	pandable up to 32 gging on Micro SD  t frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations n update via ftp and tp functions nunication alarm  50950  Description Micro SD memory card DIN rail bus system 1 USB-A Micro USB-B Micro USB OTG to US Single-phase switchi	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32  100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950  with adapter slot 35 mm lead terminal + 1 slot 35 mm 5 P plug cable SB Type A (female) Adapter Cable		
PROCESSING, ME CPU RTOS Multitasking Flash (serial) Expandable Memory Datalogger Synchronous Datalog Asynchronous Datalog PROGRAMMING Platform Nr max function block (SEAL) Nr max variables per Web Server Librerie e funzioni  STANDARD Norms ORDER CODES Code Z-LOGGER3 Z-GPRS3 Z-UMTS CLOUD BOX A-GSM A-GSM-DIR-5M A-GSM-OMNIDIR A-GSM-QUAD FD01	Descrip Advanced GSM/GPF 3G+ data Micro Sca Dual banu GSM-DEC GSM-UM7 GSM qua	Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet Alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions  EN 61000-6-4, EN 64000-6-2, EN 61010-1  stion d datalogger, alarm module, web server with built-in IO 35 datalogger with built-in IOs, telecontrol functions, voice alarm ada / Industrial IoT Box d swing GSM external antenna, cable 3,2 m, SMA CT-UMTS directive compact antenna TS-WIFI Omnidirectional Antenna	ARM 32 bit Si 8 MB Supplied M GB (dedica Measurem card and F Sampling ti Up to 8 trig SEAL 32 100 + Buil Yes, on Eth GSM/GPRS commands Log and rechannels, t manageme Firmware a webserver ModBUS TG Math funct GSM alarm	t K64 120 MHz  licro SD (up to 4 GB) exted slot) ents, alarms, events, lo las Memory ime, min 60s gered-events, max inpu  t-in I/Os ernet, APN Private SIM, 6 data exchange, alarm is, evens, ftp/email send, al-time ModBUS/Ethern hresholds, controls and ent and remote configuration CP-IP, ftp, webserver, ht ions 1 yeystem, Ethernet comm 1, EN 301489-1/7, EN 6  Code MSD Z-PC-DIN1-35 Z-PC-DINAL1-35 CU-A-MICROB CU-A-MICROB CU-A-MICRO-OTG Z-SUPPLY SOFTWARE / APP	pandable up to 32 gging on Micro SD  It frequency 1 Hz  Public IP SIM management, http et variables, I/O bit operations n update via ftp and tp functions nunication alarm  50950  Description Micro SD memory card DIN rail bus system 1 USB-A Micro USB-B Micro USB OTG to US Single-phase switchi	UMTS/HSPA+ 850/1900/2100 MHz (option) GSM/GPRS quad-band 850/900/1800/1900 MHz (standard)  ARM 32 bit K64 120 MHz Si 8 MB Supplied Micro SD (up to 4 GB) expandable up to 32 GB (dedicated slot) Measurements, alarms, events, logging on Micro SD card and Flas Memory Sampling time, min 60s Up to 8 triggered-events, max input frequency 1 Hz  SEAL 32 100 + Built-in I/Os Yes, on Ethernet, APN Private SIM, Public IP SIM GSM/GPRS/HSPA+ data exchange, alarm management, commands, evens, ftp/email send, http Log and real-time ModBUS/Ethernet variables, I/O channels, thresholds, controls and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp, webserver, http functions Math functions GSM alarm system, Ethernet communication alarm Ethernet EN 301511, EN 301489-1/7, EN 60950  with adapter slot 35 mm lead terminal + 1 slot 35 mm 5 P plug cable BB Type A (female) Adapter Cable Ing power supply 24V @ 1.5A		



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## Advanced Dataloggers Advanced Dataloggers



WITH ALARM MANAGEMENT AND TELEMETRY FUNCTIONS























**Overview** 

**Z-GPRS3**, **Z-LOGGER3** and **Z-UMTS** allow to meet increasing data collection's needs as well as real time analysis and IT systems integration that are in line with the new productivity and communication concepts of Industry 4.0 and Internet of Things. These dataloggers, designed to fulfill remote alarm functions, telemetry and data logging, are available with built-in I/O's, supervision and programming software, Ethernet interfaces, RS485 Modbus Rtu serial ports and 2G/3G+ modem.

### DATA COLLECTION, ALARM MANAGEMENT, TELEMETRY AND REMOTE CONTROL



ALARM **MANAGEMENT** VIA SMS



**VOICE ALARMS** AND DTMF **COMMANDS** 



SENDING **EMAIL** 



SENDING

**FILE VIA FTP** 

**CLOUD /IOT** CONNECTION (THIRD PARTY

SCADA

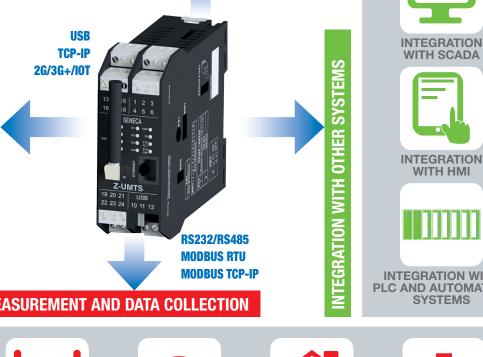
**Hardware** 



Flexible programming with SEAL (SENECA ADVANCED LANGUAGE)





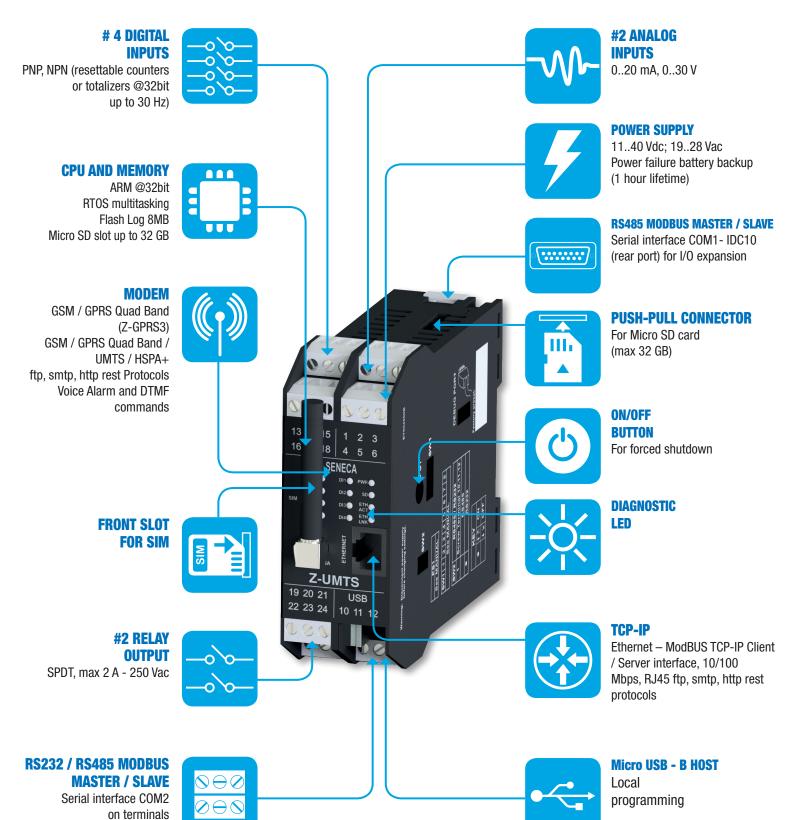


CLOUD BOX	FOR REMOTE FIONS AND	AVAILABLE INTERFACE FOR SENSORS AN ACTUATORS	DR COUD MEAS	POWER	SCESS CONTROL	, ASYNCHRONOUS, TRIGGER-EVENT DATALOGGER
AVAILABLE N						
		Commands / Voice alarms	Built-in I/Os	Communication ports	n	Communication protocols
	IODELS	Commands / Voice alarms	Built-in I/0s 4DI, 2AI, 2DO	<b>ports</b> 1 ETH, 1 RS485, 1 RS48	.5/ Ftp,	protocols Smtp, Smtps, http rest, https,
AVAILABLE N	IODELS Built-in modem	Voice alarms	1/0s 4DI, 2AI, 2DO	<b>ports</b> 1 ETH, 1 RS485, 1 RS48 RS232, 1 MICRO USB	5/ Ftp,	protocols Smtp, Smtps, http rest, https, IBUS RTU, ModBUS TCP-IP, SMS
AVAILABLE N	IODELS Built-in modem	Voice alarms	I/Os	<b>ports</b> 1 ETH, 1 RS485, 1 RS48	5/ Ftp, Moc 5/ Ftp,	protocols Smtp, Smtps, http rest, https,

**SENECA** | Avanced Dataloggers

**Z-GPRS3, Z-LOGGER3** and **Z-UMTS** are high-performance units and are configured as a Master unit of Seneca Z-PC Line remote I/O system. They offer powerful security integration with third party systems thanks to Seneca's technological

standards. These modules operate with 8 built-in I/O's, 2 serial interfaces with Modbus RTU protocol, 1 Micro USB port and 1 10/100 Mbps Ethernet port. The models with 2G / 3G + modem, support different types of SIM. These dataloggers are equipped with 8 MB of flash memory and Micro SD card slot up to 32 GB.



**SENECA** | Avanced Dataloggers

## **Programming & Connectivity**

Seneca's advanced dataloggers ensures a flexible programming allowed by dedicated software designed by Seneca for the development of the control logics (SEAL). These modules are supplemented by an embedded Webserver, an App for SMS commands management, an import and data visualization Tool (Log Factory). Besides, the Micro SCADA 'Cloud BOX' allows real-time telemetry, RTU commands sending, log files analysis, events and alarms log archiving through customizable web pages by widget. Seneca offers powerful security integration with third-party Scada systems, Cloud, database and web platforms already available in plants.

OPC

Server I/O

support



SYSTEM CONFIGURATION AND LOGIC-MATHEMATICAL FUNCTIONS



#### **CLOUD BOX**

REMOTE CONNECTIONS MANAGEMENT, MICRO SCADA, DATALOGGER



#### **WEB SERVER PARAMETERS**

**MONITORING** 



#### **LOG FACTORY**

HISTORICAL FILES STORAGE **AND VISUALIZATION** 



#### **SENECA SMS**

ANDROID / IOS APP FOR SENDING AND **CUSTOMIZING SMS** 



## THIRD PARTY SYSTEMS

THIRD-PARTY SCADA SYSTEMS, CLOUD, **DATABASE AND WEB PLATFORMS** 

	Functions	SEAL	Cloud BOX	Web Server	Log Factory	SENECA SMS
Basic	Date and time settings	✓	✓	✓		✓
	Communication network settings	✓				
settings	Memory device settings	✓				
	Remote firmware update	✓	✓	✓		
I/O and variables management	Modbus variables e I/O signals settings	✓				
	Counters and totalizers settings	✓				
	Export variables to SCADA	✓				
	Datalogger settings	✓				
	Archived log storage		✓		✓	
Alarms and	Send Remote Commands		✓	<b>√</b> *		✓
	DTMF settings	✓				
Commands	SMS & Custom Commands	✓				✓
	Alarms/Events management	✓	✓			
	Diagnostic	✓	✓	<b>√</b>		
Control logic	Logic functions	✓				
	Math functions	✓	✓			
Monitoring and	Device status visualization	✓	<b>√</b>	<b>√</b>		
	Real-time variables visualization		<b>√</b>	<b>√</b>	✓	✓
visualization	Real-time alarms/events visualization		✓	<b>√</b>		✓
	Variables trend visualization		<b>√</b>	<b>√</b>	<b>√</b>	
	Synoptic pages / widget		<b>√</b>			
Supported	PC Windows	✓	✓	<b>√</b>	✓	
	Smartphone Android		✓	✓		✓
hardware	Smartphone IoS		<b>✓</b>	<b>√</b>		✓
	Smartphone Window Phone		<b>√</b>	<b>√</b>		

\* Limited set of commands

**SENECA** | Avanced Dataloggers