

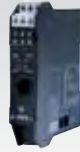
Z-PC LINE · CONTROL UNITS

Z-TWS-2

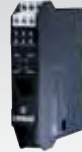
Z-TWS-3

Z-TWS-64

Z-LWS



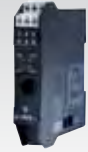
Multi-function Control Unit



Multi-function Control Unit Isagraf / CoDeSys



Multi-function Control Unit 64 bit



Micro PLC



GENERAL FEATURES

DC Power supply	10..40 Vdc	10..40 Vdc	10..40 Vdc	10..40 Vdc
AC Power supply	19..28 Vac / 50-60 Hz	19..28 Vac / 50-60 Hz	19..28 Vac / 50-60 Hz	19..28 Vac / 50-60 Hz
Max power consumption	3.5 W	3.5 W	3.5 W	3.5 W
Isolation	1.500 Vac	1.500 Vac	1.500 Vac	1.500 Vac
Status Indicators	Ethernet Connection Power Supply PLC On Ethernet link	Ethernet Connection Power Supply PLC On Ethernet link	Ethernet Connection Power Supply PLC On Ethernet link	Ethernet Connection Power Supply PLC On Ethernet link
Installation Category	II	II	II	II
Pollution Degree	2	2	2	2
Protection Degree	IP20	IP20	IP20	IP20
Operating Temperature	0..+55 °C	0..+55 °C	0..+55 °C	0..+55 °C
Storage Temperature	-20..+70 °C	-20..+70 °C	-20..+70 °C	-20..+70 °C
Humidity	30..90% a +40 °C (non condensing)	30..90% a +40 °C (non condensing)	30..90% a +40 °C (non condensing)	30..90% a +40 °C (non condensing)
Dimension (W x H x D)	17.5 x 100 x 112 mm	17.5 x 100 x 112 mm	35 x 100 x 112 mm	17.5 x 100 x 112 mm
Weight	250 g	250 g	250 g	250 g
Enclosure	Nylon 6 with 30% glass-fiber, V0 self-extinguished class	Nylon 6 with 30% glass-fiber, V0 self-extinguished class	Nylon 6 with 30% glass-fiber, V0 self-extinguished class	Nylon 6 with 30% glass-fiber, V0 self-extinguished class
Hot Swapping	Yes	Yes	Yes	Yes
Connection	Removable terminal block, max wire size 2.5 mm ²	Removable terminal block, max wire size 2.5 mm ²	Removable terminal block, max wire size 2.5 mm ²	Removable terminal block, max wire size 2.5 mm ²
Mounting	35 mm DIN rail guide	35 mm DIN rail guide	35 mm DIN rail guide	35 mm DIN rail guide

COMMUNICATION PORTS

Ethernet 10BaseT (RJ45)	1	1	1 (Ethernet 10/100BaseT)	1
Serial 0 (RS232 via RJ10-4/4)	1	1	1	1
Serial 1 (RS485 – ModBUS / CAN)	1	1	1	1
Serial 2 (RS232/RS485 via RJ10-4/4)	1	1	1	-
Serial 3 RS485	1	1	1	-
CAN-BUS 2.0	-	1	1	-
Tp-Wire	1	1	1	1

ETHERNET/REMOTE COMMUNICATION

Ethernet TCP/IP – ModBUS TCP/IP (Client /Server)	Yes (10 Mbps)	Yes (10 Mbps)	Yes (10/100 Mbps)	Yes (10 Mbps)
Max task ModBUS Master	4	4	4	4
Max task ModBUS slave RTU or TCP	3	3	3	3
ModBUS RTU on RS232/RS485	Master / Slave	Master / Slave	Master / Slave	Master / Slave
Serial Speed	1.200 ..115.000 bps	1.200 ..115.000 bps	1.200 ..115.000 bps	1.200 ..115.000 bps
Parity	None, even, odd	None, even, odd	None, even, odd	None, even, odd
Max Connection Distance	1200 m	1200 m	1200 m	1200 m
System Protocols	PPP, http, FTP, SMTP	PPP, http, FTP, SMTP	PPP, http, FTP, SMTP	http, FTP

PROCESSING & MEMORIES

Cycle Time	2.5 ms/K instruction	2.5 ms/K instruction	n.d.	2.5 ms/K instruction
Data Processing	CPU μ P RISC 32 bit – 20 MIPS	CPU μ P RISC 32 bit – 20 MIPS	CPU μ P MISC 64 bit – 70 MIPS	CPU μ P RISC 32 bit – 20 MIPS
Flash Memory (Data)	16 MB	16 MB (of which 14 for datalogging)	128 MB (of which 120 for datalogging)	-
RAM Memory	8 MB	8 MB	64 MB	256 KB
Retentative Variables	236 bytes	2046 bytes	2046 bytes	236 bytes
Backup Memory	Yes	Yes	Yes	Yes
Max Analog Variables	32.000	32.000	32.000	32.000
Max Timers	16.000	16.000	16.000	16.000
Max Counters	16.000	16.000	16.000	16.000

CONFIGURATION, SOFTWARE, NORMS

Z-NET3 (free configuration software)	Yes	Yes	Yes	Yes
OPC SERVER	Yes	Yes	Yes	-
Web Server	Yes	Yes	Yes	-
Datalogger	Yes	Yes	Yes	-
RTU/Z-NET RTU (remote control appl.)	Yes	Yes	Yes	-
PLC/ISAGRAF	Yes	Yes	Yes	Yes (limited functions)
Norms and Approvals	EN50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4, EN 50140/141; EN 61010-1; EN 60742	EN50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4, EN 50140/141; EN 61010-1; EN 60742	EN50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4, EN 50140/141; EN 61010-1; EN 60742	EN50081-2; EN 55011; EN 50082-2; EN 61000-2-2/4, EN 50140/141 ; EN 61010-1; EN 60742

ORDER CODES

Code	Description	Code	Description
Z-TWS3	Multifunction Control Unit – Standard Isagraf	Z-TWS-64-C	Multifunction Control Unit – 64 bit Standard CoDeSys
Z-TWS3-C	Multifunction Control Unit – Standard CoDeSys	Z-LWS	Micro PLC
Z-TWS2	Multifunction Control Unit – Standard Isagraf	Software	pag.25
Z-TWS-64	Multifunction Control Unit – 64 bit Standard Isagraf	Accessories	pag.26