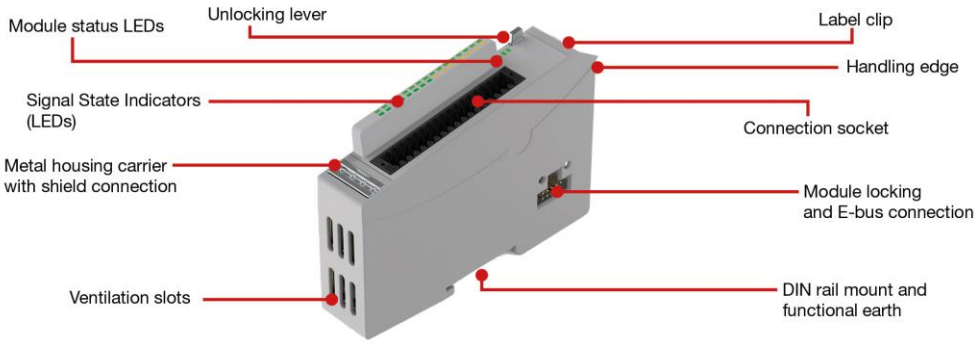
Kuhnke FIO — Control Technology



Description	Order number	Function
Controller (CODESYS PLC)	694 320 16 001 Kuhnke FIO Controller 116	PLC with RS232, CANopen®, EtherCAT®
	694 520 16 001 Kuhnke FIO Controller 116 SM	like 116 but with CODESYS-Softmotion
	694 620 16 001 Kuhnke FIO Controller 116 CNC	like 116 but with CODESYS-CNC & Rob.
	further versions e.g. without WebVisu and without OPC UA on demand	
	With extension (2 x RJ45) left side, OPC UA and WebVisu:	
	694 321 16 001 Kuhnke FIO Controller 116 LAN	like 116 but with Ethernet extension
	694 322 16 001 Kuhnke FIO Controller 116 IRT	like 116 but with PROFINET® Device ext.
	694 323 16 001 Kuhnke FIO Controller 116 EC	like 116 but with EtherCAT® Slave ext.
NEW	694 300 11 000 Kuhnke FIO Controller 111	PLC with integrated IOs (7 DI, 8 DO, 2DI/AI, 2 AI, 2 AO) Integrated functions like counter, encoder, PTO, PWM
EtherCAT® bus coupler	694 400 00 Kuhnke FIO Coupler, 3A	EtherCAT® RJ45 In / Out
	694 400 10 Kuhnke FIO Coupler DI16/DO16	2A, EtherCAT® RJ45 In / Out, 16 Inputs 3ms, 16 Outputs 0.5A
Extension modules **Communication**	694 400 01 Kuhnke FIO Extender 1-Port	1 x EtherCAT RJ45 Out
	694 400 02 Kuhnke FIO Extender 2-Port	2 x EtherCAT RJ45 Out
	694 455 02 Kuhnke FIO RS485 1 Port	1 x RS485
	694 455 04 Kuhnke FIO RS232 2 Port	2 x RS232
	694 455 06 Kuhnke FIO CAN	1 x CAN
Extension modules **Digital input / output**	694 450 02 Kuhnke FIO DI16/DO8 1A	16 Inputs 1ms, 8 Outputs 1A
	694 450 03 Kuhnke FIO DI16/DO16	16 Inputs 1ms, 16 Outputs 0.5A
	694 450 04/ 05 Kuhnke FIO DI8/DO8	8 Inputs 5ms/ 1ms, 8 Outputs 0.5A
	694 451 02/ 04 Kuhnke FIO DI32	32 Inputs 1ms/ 5ms
	694 451 03 Kuhnke FIO DI16	16 Inputs 1ms
	694 451 43 Kuhnke FIO DI16 2-wire	16 Inputs 1ms, 2-wire connection
	694 451 44 Kuhnke FIO DI16 1ms 2-wire GI	16 Inputs 1ms, galv. isolated per channel
	694 452 01 Kuhnke FIO DO16	16 Outputs 0.5A
	694 452 41 Kuhnke FIO DO16 2-wire	16 Outputs 0.5A, 2-wire connection
	694 452 02 Kuhnke FIO DO8 1A	8 Outputs 1A
	694 452 06 Kuhnke FIO DO8 2A	8 Outputs 2A
	694 452 03 Kuhnke FIO DO8 Relay NO 24V	8 Relay-Outputs, NO, 24VDC 2A
NEW	694 452 04 Kuhnke FIO DO8 Relay NO	8 Relay-Outputs, NO, 24 VDC/ 230VAC 2A

Extension modules **Analogue input / output (each channel configurable via CoE)**	694 441 51 Kuhnke FIO AI4-I 12Bit 694 441 52 Kuhnke FIO AI4/8-U 13Bit 694 441 53 Kuhnke FIO AI8/16-U 13Bit 694 441 54 Kuhnke FIO AI8-I 12Bit 694 442 52 Kuhnke FIO AO4-U/I 16Bit 694 444 65 Kuhnke FIO AI4 12 Bit/AO4 16 Bit	4 Inputs 0(4)..20mA 4 diff. / 8 s.e. Inputs 0..10V / -10..+10V 8 diff. / 16 s.e. Inputs 0..10V / -10..+10V 8 Inputs 0(4)..20mA 4 Outp. 0(4)..20(24)mA / 0..10V, -10..+10V 4 Inputs 0..10V/0(4)..20mA, 4 Outputs 0(4)..20mA / 0..10V, -10..+10V
Extension modules **Temperature input (each channel configurable via CoE)**	694 443 57 Kuhnke FIO AI4-PT/Ni100 16 Bit 694 443 58 Kuhnke FIO AI8-PT/Ni1000 16 Bit	4 Inputs bzw. 8 Inputs PT100 / Ni100 oder PT1000 / Ni1000 oder Thermo Type J, K oder mV
Extension modules **Analogue input Special (each channel configurable via CoE)** NEW	694 445 51 Kuhnke FIO AI4 U/I/R/T 24 Bit 694 445 52 Kuhnke FIO AI2 Measuring Bridge 24 Bit	4 Inputs 0(4)..20mA, 0..10V, -10..+10V, 0..250 Ohm - 0..10 kOhm, PT/NI 100, PT/NI 1000, Thermo Type B, E,J,K,N,R,S,T 2 AI for measuring bridges
Extension modules **Counter / CAM Control / Drive Control** NEW	694 444 01 Kuhnke FIO Counter 2 694 454 01 Kuhnke FIO Counter/ Posi 2 694 454 53 Kuhnke Counter/ Encoder 654 444 11 Kuhnke FIO CAM Control 694 454 16 Kuhnke FIO Drive Control 694 454 56 Kuhnke FIO Stepper Control 3 Axis	2 Counter 400kHz 2 Counter 400kHz, 2 AO* 0V..10V 2 Counter or 2 Encoder SSI, EnDAT 2.1 24 CAM-Outputs 0.5A, 1 DI* 1ms, 4 AI* 24V od. 0..10V) Stepper- or brushless motor, 5A 3 x Stepper motor, 1,8A
Extension modules **Mixed I/O** NEW	694 444 64 Kuhnke FIO MIX 04 694 444 66 Kuhnke FIO MIX 111	4 AI 12Bit, 4AO 16Bit, 2 Counter/ Encoder configurable via CoE 12 DI, 8 DO*, 2 AI, 2 AO 12 Bit, 4 Counter, 2 Encoder , 4 Timestamp, 2 PTO-axis, 4 PWM configurable via CoE
Erweiterungsmodule **OC (One Channel)**	694 434 53 Kuhnke OC Counter/ Encoder 694 434 65 Kuhnke OC AI4 12 Bit	2 counter or 2 Encoder SSI, EnDAT 2.1, OC –function for e.g. SLS or SP with FIO Safety PLC 4 Inputs 0..10V/0(4)..20mA, OC- function for safe analogue values with FIO Safety PLC
Extension modules **Safety** NEW	694 330 00 Kuhnke FIO Safety PLC 694 331 00 Kuhnke FIO Safety PLC EC 694 332 00 Kuhnke FIO Safety PLC EXT 694 430 00 Kuhnke FIO Safety SDI4/SDO2 694 430 10 Kuhnke FIO Safety SDI8/SDO2 694 430 20 Kuhnke FIO Safety SDI16/SDO4 694 431 00 Kuhnke FIO Safety SDI16	FSoE Master, CODESYS Safety FSoE Master, CODESYS Safety, Coupler FSoE Master, CODESYS Safety, ECAT Out FSoE Slave, 4 safe DI*, 2 safe DO* FSoE Slave, 8 safe DI*, 2 safe DO* FSoE Slave, 16 safe DI*, 4 safe DO* FSoE Slave, 16 safe DI*

*DI=digital Inputs, DO=Digital Outputs, AI=Analogue Inputs, AO=Analogue Outputs