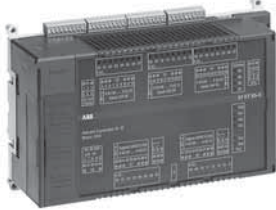


AC31 Series 90

Compact PLC and PCI Slot

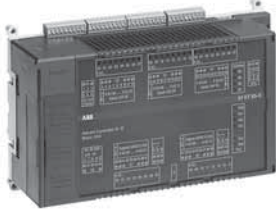


07 KT 95

Compact PLC AC31 series 90

Description: see "Overview Central Units". Integrated CS31 field bus.
Optional: Smart Media Card for saving data and user programm backup and battery (ref. accessories).

Type	Digital I/O (DI / DO / DC) integrated	Analogue I/O (AI / AO) integrated	Counter inputs	Program memory [kB]	Order Number	Weight 1 piece kg
07 KT 95	12 / 8 / -	4 / 2	2	480	GJR 525 2800 R0200	1.3
07 KT 96	24 / 16 / -	- / -	2	480	GJR 525 2900 R0200	1.3
07 KT 97	24 / 16 / 8	8 / 4	2	480	GJR 525 3000 R0200	1.3



07 KT 97

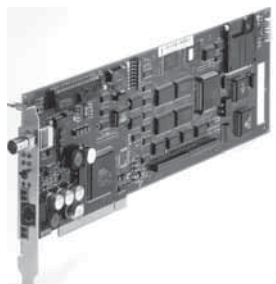
Compact PLC AC31 series 90 – with up to 2 integrated communication processors

Description: see "Overview Central Units". Integrated CS31 field bus.
Number I/Os identical with 07 KT 97.
Optional: Smart Media Card for saving data and user programm backup and battery (ref. accessories).

Type	Processor 1	Processor 2	Program memory [kB]	Order Number	Weight 1 piece kg
07 KT 97 - Profibus	PROFIBUS-DP	-	480	GJR 525 3000 R0220	1.3
07 KT 97 - CANopen	CANopen	-	480	GJR 525 3000 R0280	1.3
07 KT 97 - DeviceNet	DeviceNet	-	480	GJR 525 3000 R0250	1.3
07 KT 97 - Ethernet	Ethernet	-	480	GJR 525 3000 R0270	1.3
07 KT 97 - ARCNET	ARCNET	-	480	GJR 525 3000 R0260	1.3
07 KT 97 - Ethernet - ARCNET	Ethernet	ARCNET	480	GJR 525 3000 R0276	1.3
07 KT 97 - Ethernet - Profibus	Ethernet	PROFIBUS-DP	480	GJR 525 3000 R0272	1.3
07 KT 97 - Ethernet - CANopen	Ethernet	CANopen	480	GJR 525 3000 R0278	1.3
07 KT 97 - Ethernet - DeviceNet	Ethernet	DeviceNet	480	GJR 525 3000 R0275	1.3
07 KT 97 - Ethernet - Ethernet	Ethernet	Ethernet	480	GJR 525 3000 R0277	1.3
07 KT 97 - ARCNET - Profibus	ARCNET	PROFIBUS-DP	480	GJR 525 3000 R0262	1.3
07 KT 97 - ARCNET - CANopen	ARCNET	CANopen	480	GJR 525 3000 R0268	1.3
07 KT 98 - Profibus	PROFIBUS-DP	-	1000	GJR 525 3100 R0220	1.3
07 KT 98 - CANopen	CANopen	-	1000	GJR 525 3100 R0280	1.3
07 KT 98 - DeviceNet	DeviceNet	-	1000	GJR 525 3100 R0250	1.3
07 KT 98 - Ethernet	Ethernet	-	1000	GJR 525 3100 R0270	1.3
07 KT 98 - ARCNET	ARCNET	-	1000	GJR 525 3100 R0260	1.3
07 KT 98 - Ethernet - ARCNET	Ethernet	ARCNET	1000	GJR 525 3100 R0276	1.3
07 KT 98 - Ethernet - Profibus	Ethernet	PROFIBUS-DP	1000	GJR 525 3100 R0272	1.3
07 KT 98 - Ethernet - CANopen	Ethernet	CANopen	1000	GJR 525 3100 R0278	1.3
07 KT 98 - Ethernet - DeviceNet	Ethernet	DeviceNet	1000	GJR 525 3100 R0275	1.3
07 KT 98 - Ethernet - Ethernet	Ethernet	Ethernet	1000	GJR 525 3100 R0277	1.3
07 KT 98 - ARCNET - Profibus	ARCNET	PROFIBUS-DP	1000	GJR 525 3100 R0262	1.3
07 KT 98 - ARCNET - CANopen	ARCNET	CANopen	1000	GJR 525 3100 R0268	1.3



07 KT 98



07 SL 97

PCI Slot AC31 series 90 (PCI fullsize) – with up to 2 integrated communication processors

Description: see "Overview Central unit". Integrated ARCNET communication processor and CS31 field bus.
With own power supply 24 V DC, independent of PC. For operating systems MS-Windows like software package 907AC1131.
Programming via PCI-interface or vial serial interface with second PC.
Optional: Smart Media Card for saving data and user programm backup and battery (ref. accessories).

Type	Number PC-Slots	Processor 2	Program memory [kB]	Order Number	Weight 1 piece kg
07 SL 97-ARCNET	1	-	480	GJR 525 3400 R0160	1.3
07 SL 97-ARCNET-Profibus	2	PROFIBUS-DP	480	GJR 525 3400 R0162	1.3
07 SL 97-ARCNET-DeviceNet	2	DeviceNet	480	GJR 525 3400 R0165	1.3

AC31 Series 90 Compact PLC

2



07 DI 92



07 DC 92



07 AI 91



07 KP 90

Digital I/O modules series 90

Description: see "Overview I/O modules". Integrated CS31 field bus.
DC: Channels configurable as in- or outputs.

Type	Number DI / DO / DC	Input signal	Output signal	Details	Order Number	Weight 1 piece kg
07 DI 92	32 / - / -	24 V DC	-	input delay 7 ms	GJR 525 2400 R0101	0.25
07 DI 93-I	16 / - / -	24 V DC	-	input delay 1 ms. IP67. M12-connector s. acces.	GJV 307 5613 R0202	0.25
07 DO 93-I	- / - / 8	-	24 V DC / 2 A (T)		GJV 307 5611 R0202	0.25
07 DK 93-I	8 / 4 / -	24 V DC	24 V DC / 2 A (T)		GJV 307 5623 R0202	0.25
07 DC 91	16 / 8 / 8	24 V DC	24 V DC / 0,5 A (T)	input delay 7 ms	GJR 525 1400 R0202	0.25
07 DC 92	- / - / 32	24 V DC	24 V DC / 0,5 A (T)	input delay 7 ms in groups of 8 electrical isolation	GJR 525 2200 R0101	0.25
07 TC 90	- / - / -	- / - / -	-	Keypad controller for the connec- tion of operating panels with up to 32 keys / switches and 32 LEDs on the CS31 bus, Voltage supply 24 V DC, without housing	GJR 525 1800 R0101	0.1
07 TC 91	- / - / -	- / - / -	-		GJR 525 2700 R0101	0.1

Analogue I/O modules series 90

Description: see "Overview I/O modules". Integrated CS31 field bus.
AC: Channels configurable as in- or outputs.

Type	Number AI / AO / AC	Input signal	Output signal	Order Number	Weight 1 piece kg
07 AI 91	8 / - / -	± 10V, 0 ... 20mA, ± 50 mV, ± 500 mV, ± 5 V, PT100, PT1000, thermo-couple, 12 Bit	-	GJR 525 1600 R0202	0.25
07 AC 91 ^①	- / - / 16	± 10 V, 0 ... 20 mA, 4 ... 20 mA, 12 Bit	± 10 V, 0 ... 20mA, 4 ... 20 mA, 12 Bit	GJR 525 2300 R0101	0.25

Communication modules series 90

Further networking interfaces compac controllers AC31 series 90. Connection with the Central unit via ribbon cable.
Voltage supply 24 V DC.

Type	Protocol	Software	Interfaces	Order Number	Weight 1 piece kg
07 KP 90	RCOM	included	2 (1) RCOM (RS232/RS485); (2) RS232 for commissioning	GJR 525 1000 R0303	0.45
07 KP 93	MODBUS	included	2 MODBUS, RTU, Master or Slave (RS232/RS485)	GJR 525 3200 R1161	0.4

ARCNET: Communication interfaces to PC

For the communication between ARCNET controllers and PC (programming, visualisation).

Type	Description	Order Number
SH FARC E3 K	ARCNET-KOAX interface card for ISA bus, without RS485, transfer rate 2,5 Mbps	1SAY 11 1401R0001
SH ARC PCI K	ARCNET-KOAX-interface card for PCI bus, transfer rate 2,5 Mbps	1SAY 11 1402R0001
SH ARC PCMCIA	ARCNET-PCMCIA interface card (basic card)	1SAY 11 1403R0001
SH KOAX- PCMCIA	KOAX interface module for basic card	1SAY 11 1404R0001

① incl. 1xDI for the shut-off of all AO of the module.

with 2 modes of operation: (1) 8 AI and 8 AO with 12 Bit resolution or (2) as pairs as AI or AO with 8 Bit.

AC31 Series 90 Accessories

Accessories series 90

Type	Accessory for	Description	Order Number
07 SK 90	CPUs AC31 series 90 (KT94-S, KT95-KT98)	Programming cable incl. adapter 25/9-poles. Cable length 5 m	GJR 525 0200 R0001
07 SK 92		System cable for modem	GJR 525 0400 R0001
07 MC 90	CPUs 07KT94-S and 07KT94	Smart Media Card for saving data and backup of user program, 2 MB	GJR 525 2600 R0102
07 MC 90	CPUs 07KT95 / 96 / 97 / 98 and 07SL97	Smart Media Card for saving data and backup of user program, 8 MB	GJR 525 2600 R0201
07 LE 90	CPUs AC31 series 90 (07KT94-S, 07KT95, 07KT98, 07SL97)	Lithium battery for data buffering	GJR 525 0700 R0001
German		Manual for AC31 (as in software package 907 AC 1131)	1SAC 133 947 R0101
English		Complete hard- und software-description. Includes CD-ROM with documentation.	1SAC 133 947 R0201
-	Digital IP67 I/O modules DI93-I, DO93-I, DK93-I	Plug 5 poles, M12 straight. Connection for basic I/Os with FE connection	GJV 307 5617 R0001
-		Plug 5 poles, M12 bent. AConnection for basic I/Os with FE connection	GJV 307 5618 R0001
-		Plug 4 poles. M12 straight for double connection.	GJV 307 5624 R0001
-	RCOM coupler 07KP90	For commissioning interface Adapter for programming cable 07SK90	GJV 307 3915 R0001
-	AC31-S: 07KP94-S	interface cable incl. adapter for KT94-S with operating panel (passive mode)	GJR 525 0300 R0001
07 SK 93	07SL97 Slot CPU	Programming cable MIN DIN 8/PC-SUB D	GJR 525 3500 R0001
07 SK 94		Communication cable MIN DIN 8/-	GJR 525 3600 R0001

Programming package 907AC1131 (acc. to IEC61131-3)

For small PLC AC 31 series 40...50 (functionalities adjusted), compact PLC AC31 series 90 and Slot-PLC 07 SL 97. Operating system: Windows 98 / NT / 2000 / XP. Description: see "Overview Software Package".

Programming cable: see accessories.

Integrated: 6 programming languages, sampling trace, debugging, offline simulation, trace recording (multichannel) recipe management, visualisation, field bus configurators, online visualisation package and more.

Delivery includes: software, libraries and documentation on CD-ROM, update service.

Type	Language Manual	Description	Order Number
907 AC 1131	German	Programming package version 5.0	GJP 520 6900 R0102
907 AC 1131	English	Programming package version 5.0	GJP 520 7000 R0102

Programming package AC31GRAF (based on IEC61131-3)

For small PLC AC 31 series 40...50. Operating system: Windows 98 / NT / 2000. Description: see "Overview Software Package".

Programming cable: see accessories.

Integrated: 4 programming languages, debugging, visualisation, and much more. Can be used with previous PLC Central units type 30 series and 07KT91 ... KT94

Delivery includes: software, libraries and documentation on CD-ROM.

Type	Language Manual	Description	Order Number
AC31GRAF	English	Programming package	1SBS 260 250 R0101
AC31GRAF	French	Programming package	1SBS 260 251 R0101
AC31GRAF	Italian	Programming package	1SBS 260 252 R0101