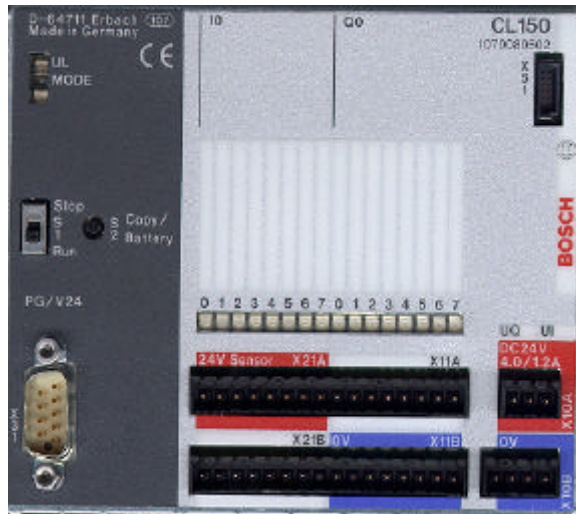


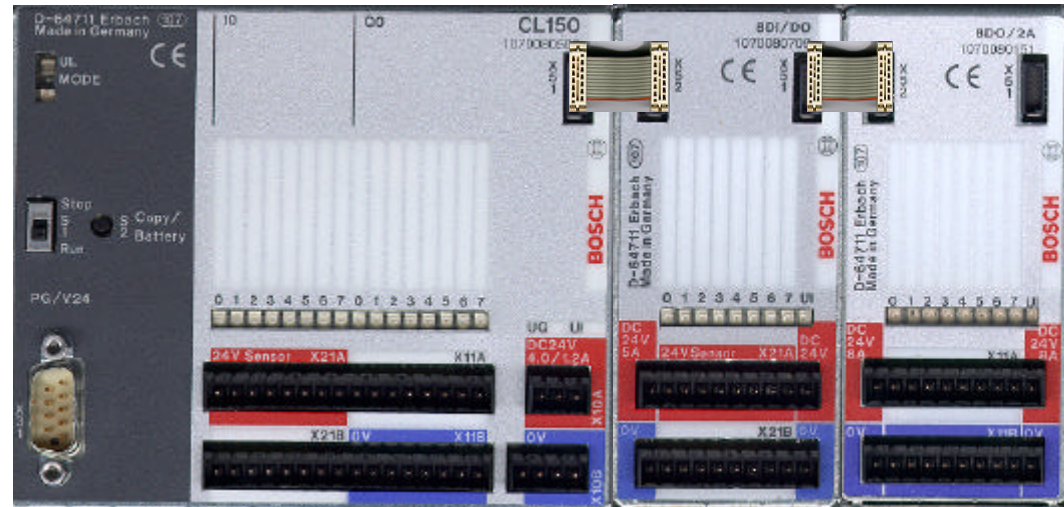
# CL150 - PLC small and powerful ... the solution for your application



Compact, cost-effective

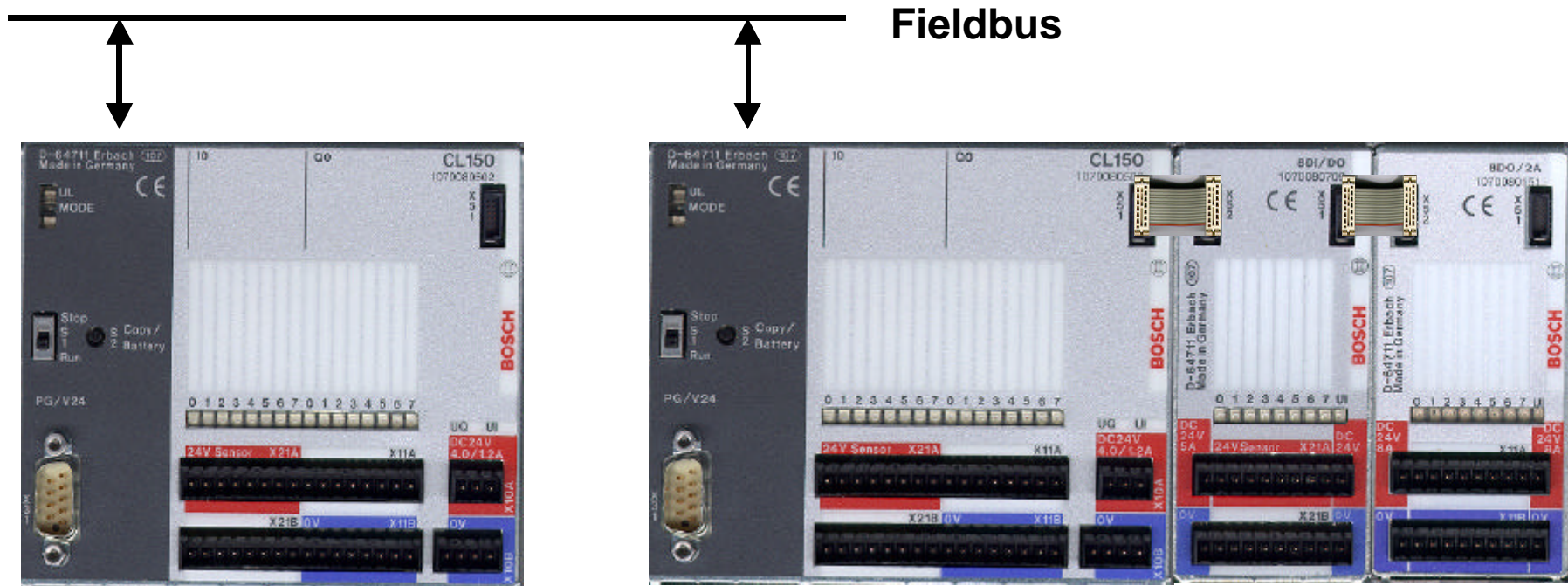


modular expandable with  
Modules from the B~IO range



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# CL150 - PLC small and powerful ... the intelligent B~IO Input/Output station

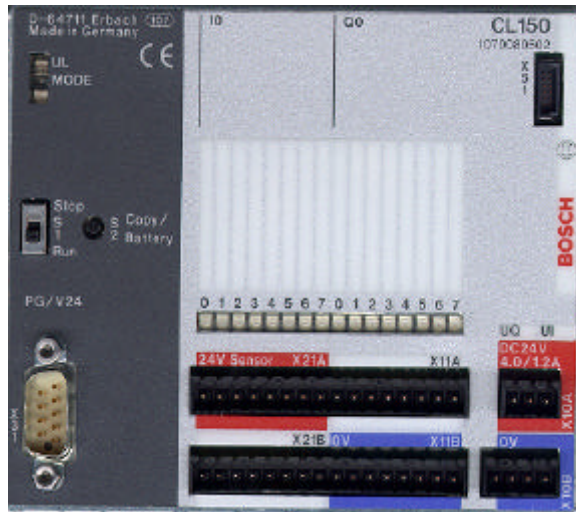


example.:

- remote data controlling
- remote pulse counter

# CL150 - PLC small and powerful

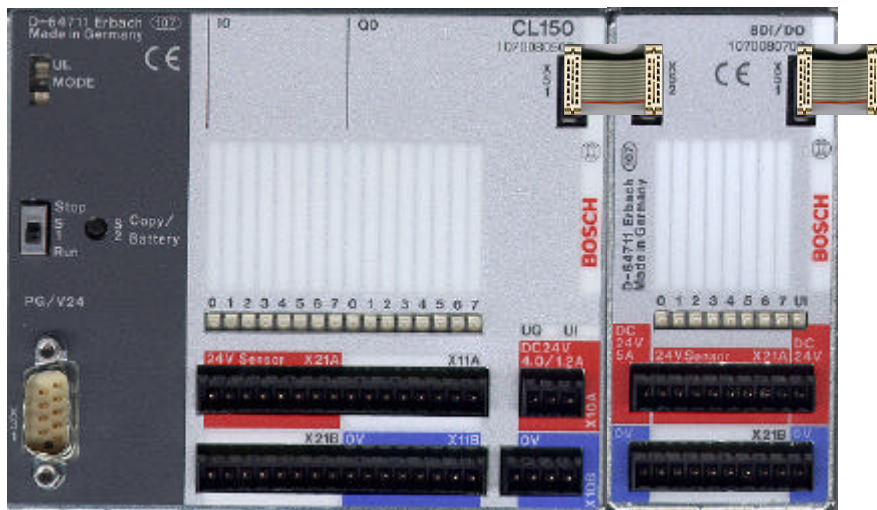
## ... stand alone ...



- **compact**
  - small size  
123 mm x 105 mm x 38mm ( B x H x T )
- **variable termination system**
  - screw
  - top-screw terminals
  - spring-force terminals
- **fast**
  - cycle-time for 1K instructions 2,6 ms
- **compatible programming**
  - WinSPS programming compatible to CL200

# CL150 - PLC small and powerful

## ... stand alone ... expandable



- **modular expandable**
  - with B~IO Input / Output modules
- **quickly adapt to the actual I/O requirements**
  - CL150 different types
  - expand with B~IO modules (max. 16 modules)
    - digital I/O modules
    - analogue I/O modules
    - relay output module
    - .....

# CL150 - PLC small and powerful

## technical Data 1



Specifications	CL150	CL150 A	CL150-DP	CL151	CL151 A	CL151 DP
System clock	-	yes	yes	yes	yes	yes
2 <sup>nd</sup> serial interface BUEP19E – PST (V24/20mA passive)	-	-	-	yes	yes	yes
Fieldbus connection (Profibus-DP Slave)	-	-	yes	-	-	yes
Onboard-analogue-Inputs ( 0-10 V )	-	2	-	-	2	-
Onboard-analogue-Output ( + / -10 V, 0-10 V, 0-20 mA )	-	1	-	-	1	-
Onboard-Counter (connected via Input I0.0-I0.3)	2 integrated Counters, each 32 Bit , max. 10kHz					
<i>alternative</i> Interrupt inputs (connected via Input I0.0-I0.2)	3 Interrupt inputs for alarm handling					
Program memory	64 Kbyte RAM and 64Kbyte flash EPROM					

# CL150 - PLC small and powerful

## technical Data 2



Specifications	CL150	CL150 A	CL150- DP	CL151	CL151 A	CL151 DP
<b>Inputs</b>	<b>384Bit ( 48 Byte )</b>					
- Total (onboard + B~ IO modules)	<b>384Bit ( 48 Byte )</b>					
- Onboard	<b>8 Bit</b>	<b>16 Bit</b>	<b>8 Bit</b>	<b>16 Bit</b>	<b>16 Bit</b>	<b>8 Bit</b>
<b>Outputs</b>	<b>256Bit ( 32 Byte )</b>					
- Total (onboard + B~ IO modules)	<b>256Bit ( 32 Byte )</b>					
- Onboard	<b>8 Bit</b>	<b>8 Bit</b>	<b>8 Bit</b>	<b>8 Bit</b>	<b>8 Bit</b>	<b>8 Bit</b>
<b>Expansion:</b>	<b>max. 16 B~ IO-modular Input- / output modules</b> <b>max. 0.5 A ( internal for I/O-Modules)</b>					
<b>Register</b>	<b>4 ( 16-Bit-Register, A,B,C,D )</b>					
<b>Organisation module</b>	<b>10</b>					
<b>Program modules</b>	<b>128</b>					
<b>Data modules</b>	<b>128</b>					
<b>Datafield</b>	<b>8 Kbyte</b>					
<b>Marker</b>	<b>1216 ( 152Byte )</b>					

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# CL150 - PLC small and powerful

## technical Data 3



Specifications	CL150	CL150A	CL150-DP	CL151	CL151A	CL151DP
Timer	128					
Hardware timer (Timer 1ms)	1					
Counter	64					
System area	256 Byte ( Flashing marker, etc. )					
Command processing time:						
Bit command:	0.6 $\mu$ s					
Word command:	0.6-28 $\mu$ s					
Module command:	46 $\mu$ s					
I/O-Image	1.9 ms					
Cycle time for 1 k commands	2.6 ms					
Interrupt response time	< 1.1 ms					
Voltage supply	24V=					
Dimensions	123 x 105 x 38	184 x 105 x 38				
further variants	CL150-CAN, CL151CAN, CL150-IBS, CL151IBS, CL150-DEV, CL151DEV,					

# CL150 - PLC small and powerful system characteristics B~IO



- **easy to expand**
- **easy adaption to the real I/O requirements**
- **clear-text labelling and status-LED for every I/O point**
- **Interfaceing of the peripheral equipment via 2 line connections (opt. 3 or 4 -line connections via plug-in terminal block)**
- **Variable termination system via screw, top-screw or spring-force.**
- **Rugged metal housing, ressistant to electrical interference and with optimal heat dissipation**
- **easy mounting on standard top-hat rails**

# Applications



- Automation of small plants or machinery and equipment
- Communication with master-PLC's by fieldbus
- Replacement of Relais/Timer control systems
- PLC for training

# Additional Features



- sequence function chart
- Büp03E on 2nd. port
- restart after voltage dip
- long module-connector

## outlook

- central programming by Ethernet or DP-V1