



expansion module 4DI / 2DO, plug-in, for 7KM PAC3220/ 4220

Model	
product brand name	SETRON
product designation	Expansion module 4DI / 2DQ
type of voltage supply	via PAC 3220 / PAC 4200
General technical data	
MTBF	141.1 a
galvanic isolation	Maximum insulation voltage: 500V AC
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	P
degree of pollution	2 according to IEC 61131
Protection class	
protection class IP	IP20
combustibility class according to UL 94	V 0
suitability for use	7KM PAC 3220 / PAC 4200 / PAC 4220
suitability for use reactive power meter	No
input voltage at digital input at DC maximum	30 V
input current at digital input	
• initial value for signal<1>-recognition	2.5 mA
• full-scale value for signal<0> recognition	0.5 mA
• for signal <1> minimum	2.5 mA
operating conditions for digital inputs external voltage supply	Yes
load resistance at digital input	
• initial value for signal<0>-recognition	10 000 Ω
• full-scale value for signal<1> recognition	1 000 Ω
type of switching output	solid state
output current	
• at digital output with signal <0> maximum	0.2 mA
• at digital output for signal <1> minimum	50 mA
• at digital output for signal <1> maximum	130 mA
• at the digital outputs at DC limited to 100 ms maximum	130 mA
• at the digital outputs at DC maximum	50 mA
internal resistance at the digital outputs	55 Ω
Connections	
type of electrical connection	screw terminal
Mechanical Design	
height	63 mm
width	43 mm
depth	22 mm
fastening method	pluggable

## Environmental conditions

<b>ambient temperature during operation</b>	
• minimum	-5 °C
• maximum	55 °C
<b>ambient temperature during storage</b>	
• minimum	-25 °C
• maximum	70 °C

## Environmental footprint

global warming potential [CO2 eq] total	1.53 kg
global warming potential [CO2 eq] during manufacturing	1.56 kg
global warming potential [CO2 eq] during operation	0 kg
global warming potential [CO2 eq] after end of life	-0.045 kg

## Approvals Certificates

General Product Approval	EMV
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## Further information

### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KM9200-0AB00-0AA0>

### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/7KM9200-0AB00-0AA0>

### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

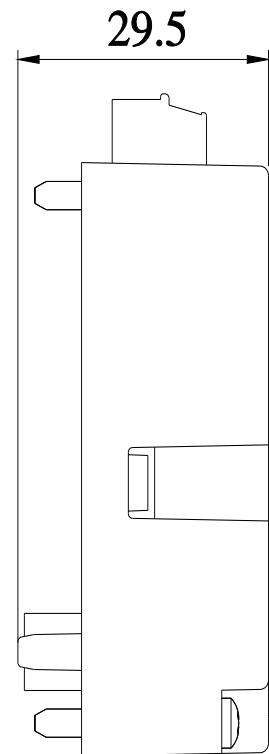
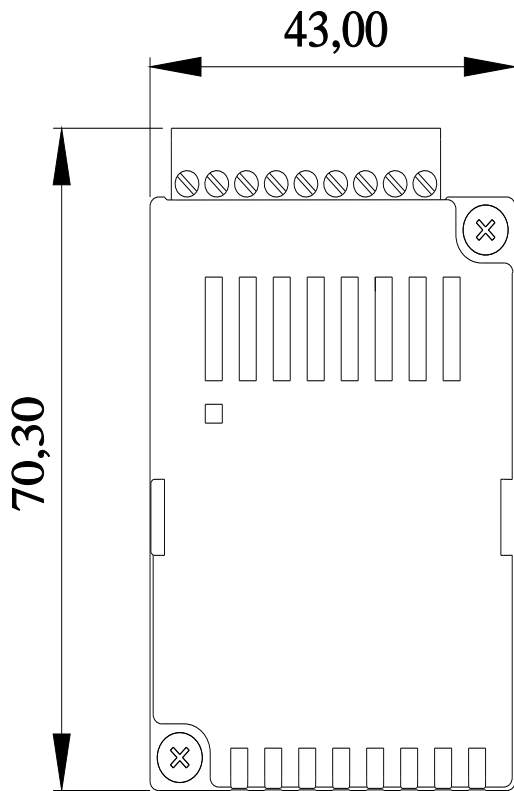
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### CAX-Online-Generator

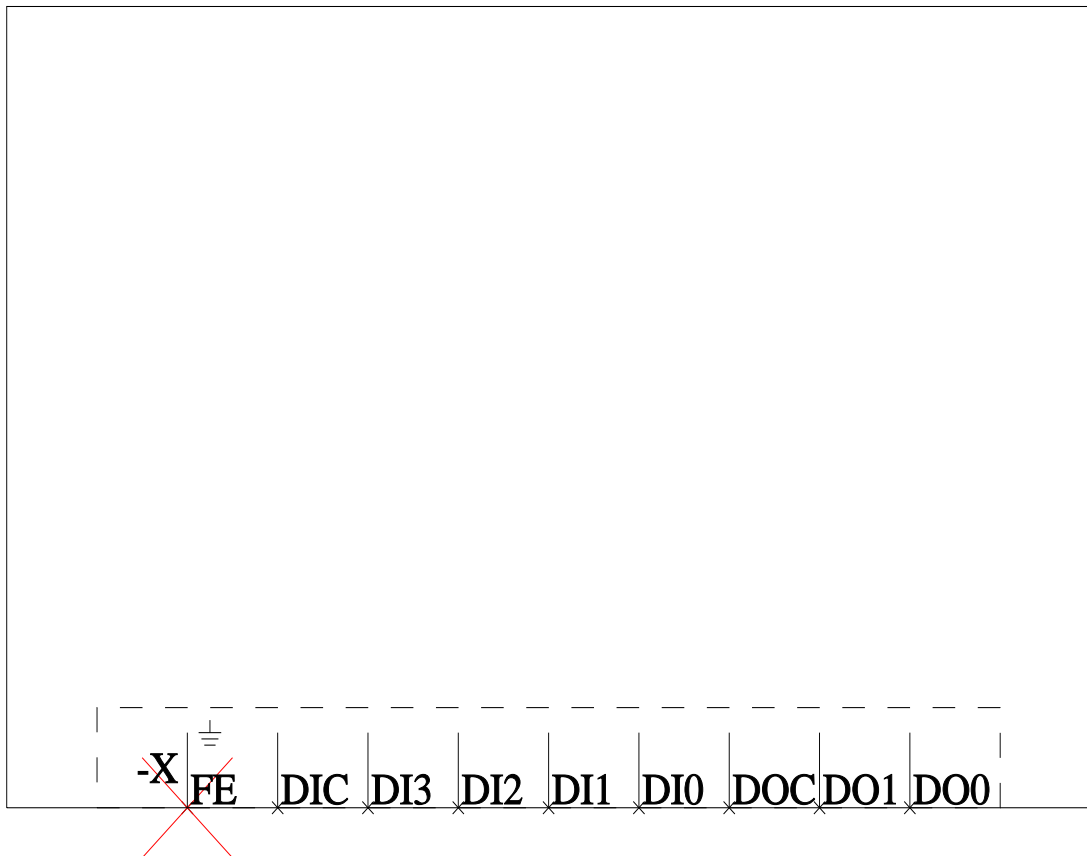
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### Tender specifications

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expansion module I(N),I(diff),analog N-conductor measurement, residual current measurement, 2 analog inputs, plug-in, for 7KM PAC3220 / 4220

Model	
product brand name	SENTRON
product designation	I(N),I(Diff) expansion module, analog N conductor measurement, differential current measurement, 2 analog inputs
type of voltage supply	via PAC 3200 / PAC4200
General technical data	
galvanic isolation	Maximum insulation voltage: 500V AC
degree of pollution	2 according to IEC 61131
Protection class	
protection class IP	IP20
combustibility class according to UL 94	V 0
suitability for use	7KM PAC 3220 / PAC 4200 / PAC 4220
suitability for use reactive power meter	No
Connections	
type of electrical connection	screw terminal
Mechanical Design	
height	63 mm
width	43 mm
depth	34 mm
fastening method	pluggable
Environmental conditions	
ambient temperature during operation	
• minimum	-10 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	70 °C
Environmental footprint	
global warming potential [CO2 eq] total	2.82 kg
global warming potential [CO2 eq] during manufacturing	3.16 kg
global warming potential [CO2 eq] during operation	0 kg
global warming potential [CO2 eq] after end of life	-0.359 kg
Approvals Certificates	
General Product Approval	EMV



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Industry Mall (Online ordering system)

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/7KM9200-0AD00-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

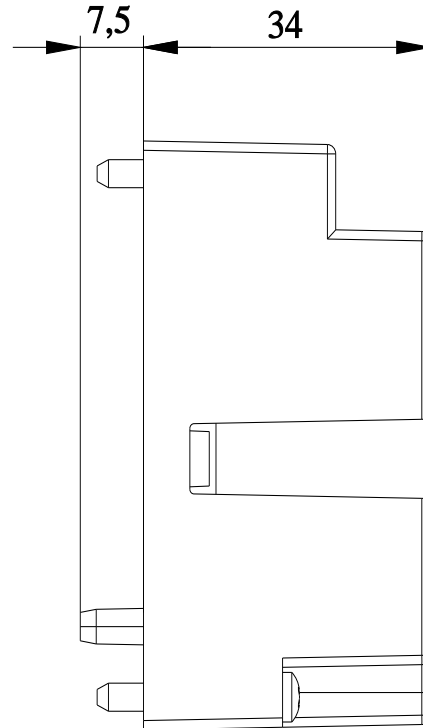
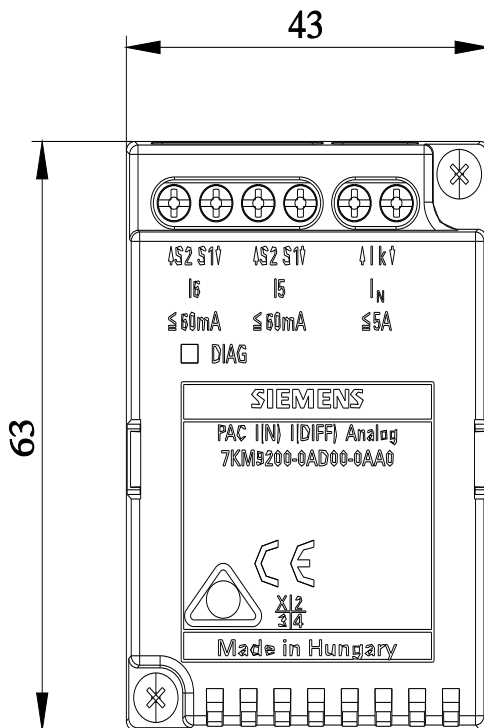
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expansion module PROFIBUS DP, plug-in, for 7KM PAC3220 / 4220 / 3VA COM100 / 800

Model	
product brand name	SETRON
product designation	PROFIBUS DP expansion module
type of voltage supply	via PAC 3200 / PAC4200 / COM100 / 800
General technical data	
MTBF	141.1 a
galvanic isolation	Maximum insulation voltage: 500V AC
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	P
degree of pollution	2 according to IEC 61131
Protection class	
protection class IP	IP20
combustibility class according to UL 94	V 0
suitability for use	7KM PAC 3200 / PAC 4200 / 3VA COM100 / 800
suitability for use reactive power meter	No
Connections	
type of electrical connection	9-pole Sub-D plug according to IEC 61158
Mechanical Design	
height	63 mm
width	43 mm
depth	22 mm
fastening method	pluggable
Environmental conditions	
ambient temperature during operation	
• minimum	-5 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	70 °C
Environmental footprint	
global warming potential [CO2 eq] total	1.4 kg
global warming potential [CO2 eq] during manufacturing	1.59 kg
global warming potential [CO2 eq] during operation	0 kg
global warming potential [CO2 eq] after end of life	-0.211 kg
Approvals Certificates	
General Product Approval	EMV



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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

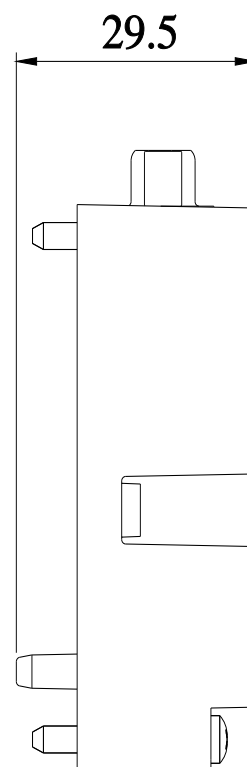
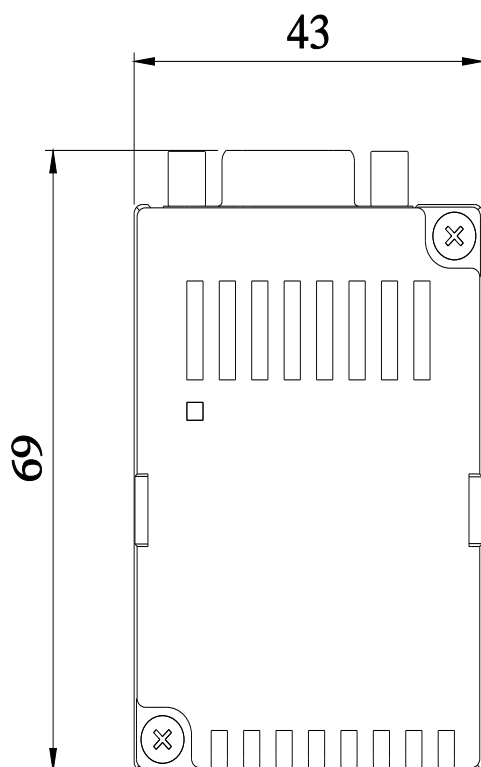
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Tender specifications

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expansion module Switched Ethernet PROFINET V3, plug-in, for 7KM PAC3220 / 4220 / 3VA COM100 / 800

Model	
product brand name	SETRON
product designation	Switched Ethernet PROFINET expansion module
type of voltage supply	via PAC 3200 / PAC3220 / PAC4200 / COM100 / 800
General technical data	
type of update time at the PROFINET IO device with IRT	500 µs, 1 ms, 2 ms, 4 ms for IRT
design of the interface according to PROFINET	2 ports (switch)
type of transfer rate for plug type RJ45	PROFINET with 100 Mbps
MTBF	196.31 a
galvanic isolation	Maximum insulation voltage: 500V AC
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	P
software version with STEP 7 in the TIA Portal required	≥ STEP 7 V16
GSD version/revision with PROFINET required	GSDML V2.3
number of interfaces according to PROFINET	2
interface design 1 integrated switch	Yes
<ul style="list-style-type: none"> <li>protocol at the 1st interface media redundancy protocol</li> <li>PROFINET IO device</li> </ul>	PROFINET MRP Yes
transmission mode for Industrial Ethernet	PROFINET with 100 Mbps
product function at the Ethernet interface Autonegotiation	Yes
product function at the Ethernet interface Autocrossover	Yes
open IE communication	Yes
IRT	Yes
transfer rate for plug type RJ45 100 Mbit/s	Yes
service as PROFINET IO device supports PROFINergy	Yes
protocol at the 1st interface media redundancy protocol	Yes
product function of the PROFINET IO controller is supported PROFINET system redundancy	Yes
for open IE communication <ul style="list-style-type: none"> <li>TCP/IP</li> <li>SNMP</li> <li>LLDP</li> </ul>	Yes Yes Yes
degree of pollution	2 according to IEC 61131
Protection class	
protection class IP	IP20
combustibility class according to UL 94	V 0
suitability for use	7KM PAC 3220 / PAC 4200 / PAC 4220 / 3VA COM100 / 800
suitability for use reactive power meter	No
Connections	
type of electrical connection	2 x RJ45 socket

Mechanical Design	
height	63 mm
width	43 mm
depth	22 mm
fastening method	pluggable
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	70 °C
Environmental footprint	
global warming potential [CO2 eq] total	7.89 kg
global warming potential [CO2 eq] during manufacturing	8.48 kg
global warming potential [CO2 eq] during operation	0 kg
global warming potential [CO2 eq] after end of life	-0.602 kg
Approvals Certificates	
General Product Approval	EMV



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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

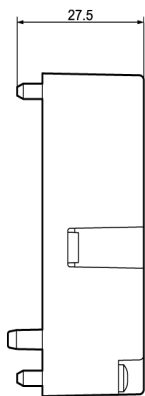
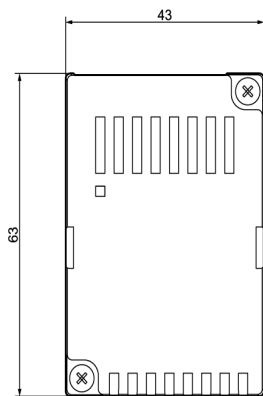
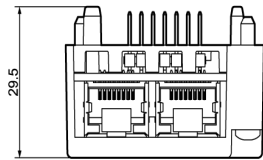
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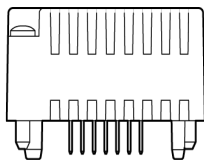
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Tender specifications

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expansion module RS485, plug-in, for 7KM PAC3220 / 4220 / 3VA COM100 / 800

Model	
product brand name	SETRON
product designation	RS 485 expansion module
type of voltage supply	via PAC 3200 / PAC4200 / COM100 / 800
General technical data	
MTBF	222.3 a
galvanic isolation	Maximum insulation voltage: 500V AC
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	P
degree of pollution	2 according to IEC 61131
Protection class	
protection class IP	IP20
combustibility class according to UL 94	V 0
suitability for use	7KM PAC 3220 / PAC 4200 / PAC 4220 / 3VA COM100 / 800
suitability for use reactive power meter	No
Connections	
type of electrical connection	screw terminal
Mechanical Design	
height	63 mm
width	43 mm
depth	22 mm
fastening method	pluggable
Environmental conditions	
ambient temperature during operation	
• minimum	-5 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	70 °C
Environmental footprint	
global warming potential [CO2 eq] total	1.72 kg
global warming potential [CO2 eq] during manufacturing	1.72 kg
global warming potential [CO2 eq] during operation	0 kg
global warming potential [CO2 eq] after end of life	-0.023 kg
Approvals Certificates	
General Product Approval	EMV



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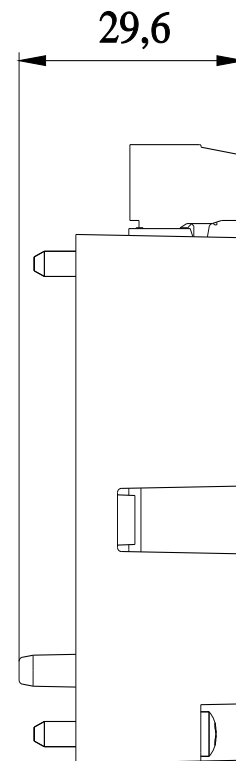
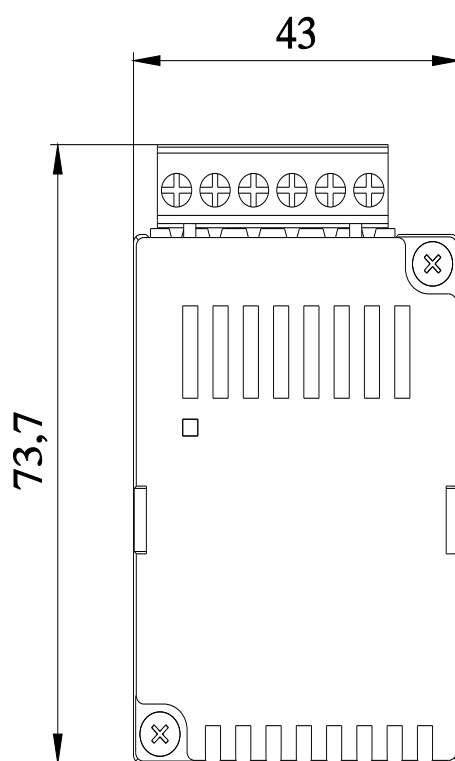
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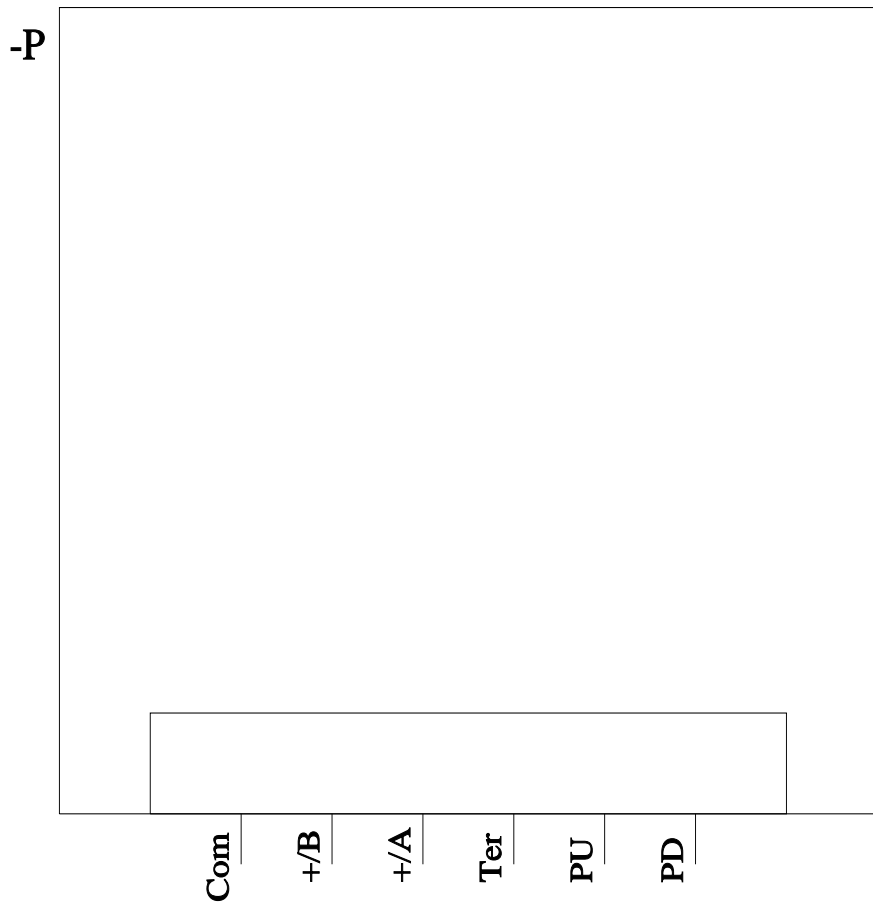
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