

## CPS-1 AC

AC Power supply with IS DC outputs for Challenger terminals

- Hazardous area operation Zone 1 & 2
- 8 x 12V, 520mA IS outputs
- Highest dependability
- 90 to 253V AC input
- IEC and ATEX certification
- Cost and weight improved design



**The CPS-1 AC is a hazardous-area power supply** unit designed to power the GECMA Challenger display terminal models 15i, 18i and 22i.

**Constructed as intrinsically safe mounting module** the CPS-1 AC power supply can be integrated easily into our standard enclosure, a huge range of special enclosures, as well as existing enclosures, walls and cabinets.

**The unit is both IEC and ATEX certified**, enabling it to be installed and operated in hazardous areas up to Zone 1.

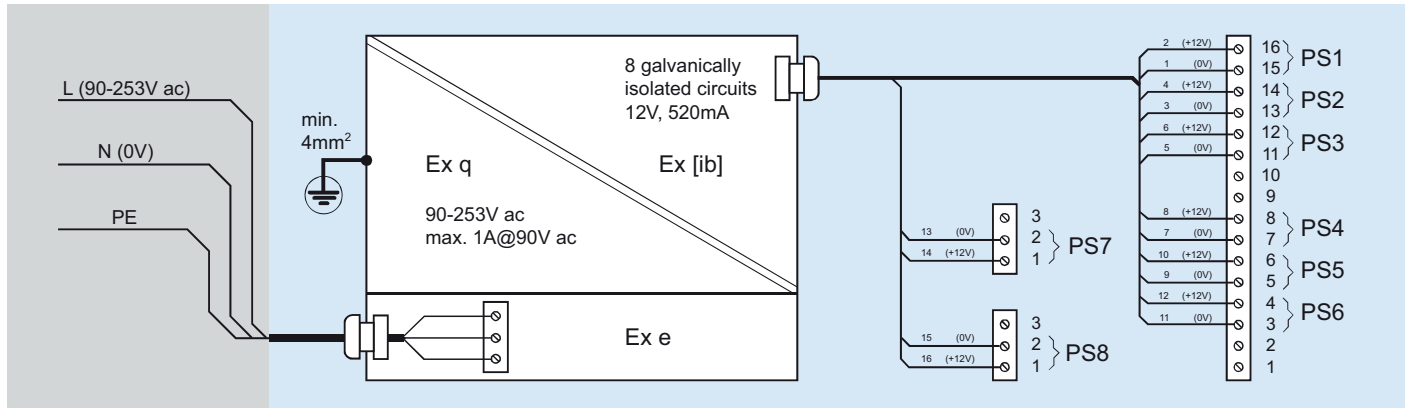
**The CPS-1 AC is powered from a safe (non-hazardous) area** and can accept AC supplies with the universal wide voltage range of 90 to 253V.

**The deliberate selection of high-quality materials** allows the CPS-1 AC to be used under temperature conditions of -10°C to +50°C with no functional impairment.

**The rugged design ensures highest dependability** and is ideally suited to surviving the harsh environments typically found in Pharmaceutical, Chemical, Petro Chemical, Oil & Gas and Off-shore manufacturing.

**The CPS-1 AC power supply is durable** by stainless steel housing, lowest power dissipation and use of exclusively passive mechanical components like passive cooling.

## BLOCK SCHEMATIC DIAGRAM



## SPECIFICATION

### ELECTRICAL

<b>Supply voltage:</b>	90 - 253V AC,
<b>Supply current:</b>	1.0A (max.) @ 90V
<b>Outputs</b>	8 x 12V @ 520mA (nominal)
<b>Power consumption:</b>	60W approx. (fully loaded max. 80W)

### ORDERING INFORMATION

The available unit is designed to power the GECMA Challenger display terminal models 15i, 18i and 22i.

Part No.: **GEC-CPS-1AC**

### SAFETY DESCRIPTION (each individual output)

<b>Voltage :</b>	$U_o = 12.3V$ dc
<b>Current :</b>	$I_o = 543mA$
<b>Power :</b>	$P_o = 6.68W$ (Rectangular output characteristic) max. external capacitance : $C_o \leq 1\mu F$ max. external inductance : $L_o \leq 10\mu H$ The supply outputs are galvanically isolated from each other up to 60V and also galvanically isolated from the input.

### ENVIRONMENTAL

<b>Temperature</b>	Operating: $-10^{\circ}C - +50^{\circ}C$ Storage: $-20^{\circ}C - +70^{\circ}C$
<b>Mounting</b>	Needs to be mounted into a GECMA Challenger housing or any housing with at least IP54.

### MECHANICAL

<b>Enclosure material</b>	Stainless steel and aluminium
<b>Dimensions</b>	390 (L) x 364 (W) x 80 (D) mm
<b>Weight</b>	18kg (approx.)

### CERTIFICATION

<b>Authority</b>	ATEX, IEC
<b>Standards</b>	EN 60079-0: 2009 EN 60079-5: 2007 EN 60079-7: 2007 EN 60079-11:2007
<b>Approved for</b>	Ex II2G Ex e q [ib] IIC T4 Gb
<b>Certificate No.</b>	TÜV 11 ATEX 7018 X IECEx TUR 12.0003X

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantee. In the interest of further technical developments, we reserve the right to make design changes.