



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## MODEL APSIS - Octal Plug-in Accessory Power Supply With 20 mA Current Sources PROVIDES...

- 24 VDC UNREGULATED "HELPER" SUPPLY FOR LOAD SHARING WITH OTHER 24 VOLT SYSTEMS WITH UNUSUAL SENSOR AND ACCESSORY LOADS OR...
- "STAND-ALONE" APPLICATIONS FOR POWERING +24 VDC SENSORS AND ACCESSORIES OR...
- TWO 20 mA CURRENT SOURCES, EACH CAPABLE OF SUPPLYING 20 mA OF CURRENT FOR SERIAL COMMUNICATION LOOPS AND POWERING UP TO 16 UNITS PER LOOP.



### DESCRIPTION

The Model APSIS is a convenient plug-in unregulated +24 VDC power supply designed to "load share" when connected in parallel with other +24 VDC unregulated systems with unusual power requirements due to sensor or accessory loading (see Fig.1). It can also be used as a general purpose stand-alone supply to power +24 VDC control circuits, sensors and accessories (see Fig.2). In addition, two 20 mA Current Source outputs are available, each capable of powering up to 16 Serial Communications units (see Fig.3). The APSIS is available in 115 and 230 VAC ±10%, 50/60 Hz. primary supply (see Ordering Information). Operating temperature range is -20°C to +50°C.

### SPECIFICATIONS

1. **POWER SOURCE:** 2 versions, 115 VAC or 230 VAC ±10%, 50/60 Hz., 11 VA max. (see Ordering Information).
2. **POWER OUTPUT:** +24 VDC unregulated @ 200 mA max. current\*, Ripple = 1.5 V P-P max.
3. **OUTPUT:** Two 20 mA current sources, each capable of supplying 20 mA of current for serial communication loops and powering up to 16 units per loop.
4. **OPERATING TEMPERATURE:** -20°C to +50°C (-4°F to +122°F)

\* Maximum available output current derates to 175 mA with 1 source active and 150 mA max. with both sources active.

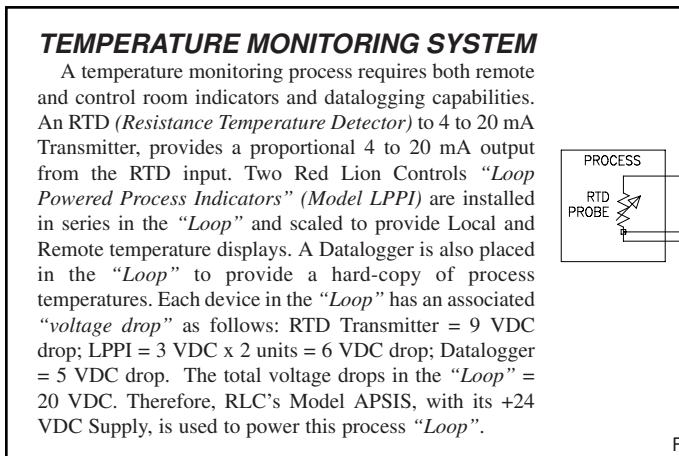
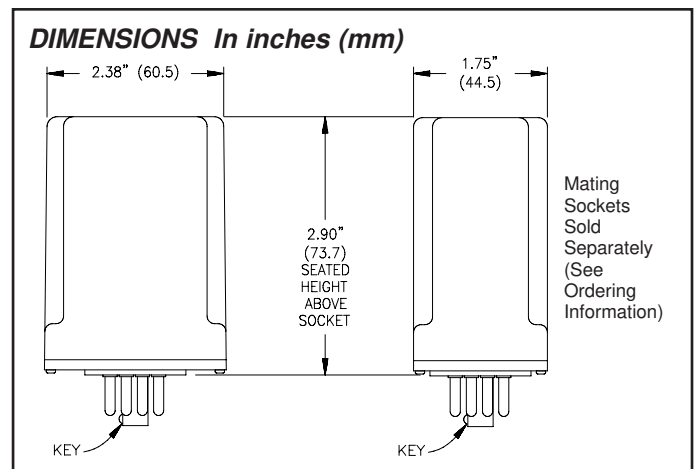
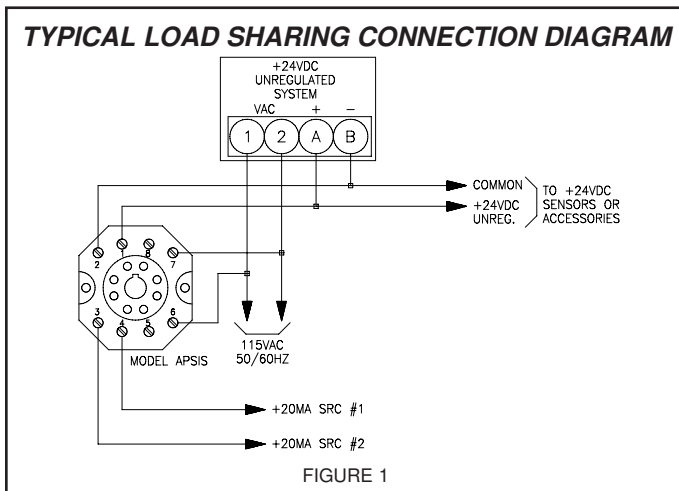


FIGURE 2



# PROCESS MONITORING SYSTEM

8 Apollo Thermocouples (APLTC) and 8 GEMINIs, all with isolated 20 mA Current Loop Serial Communications, monitor and control processes within a plant. All units, which are located in different areas of the plant, are tied together in series in two "Loops" (one Transmit Tx, the other Receive Rx) and are connected to a Central Computer located in another area of the plant. Since there are more than 7, and no more than 16 units in the "Loop", the APSIS +20 mA Current Source Outputs are used to power each "Loop". (Both Apollo Thermocouple and Gemini units can power up to 7 units in a "Loop" when using their internal 20 mA sources. However, their sources may not be tied together to power more than 7 units.) Each unit is assigned a different address number and the same Baud rate (see appropriate APLTC or Gemini data sheet). An application program is written which allows the Central Computer to send and retrieve data from any APLTC or Gemini.

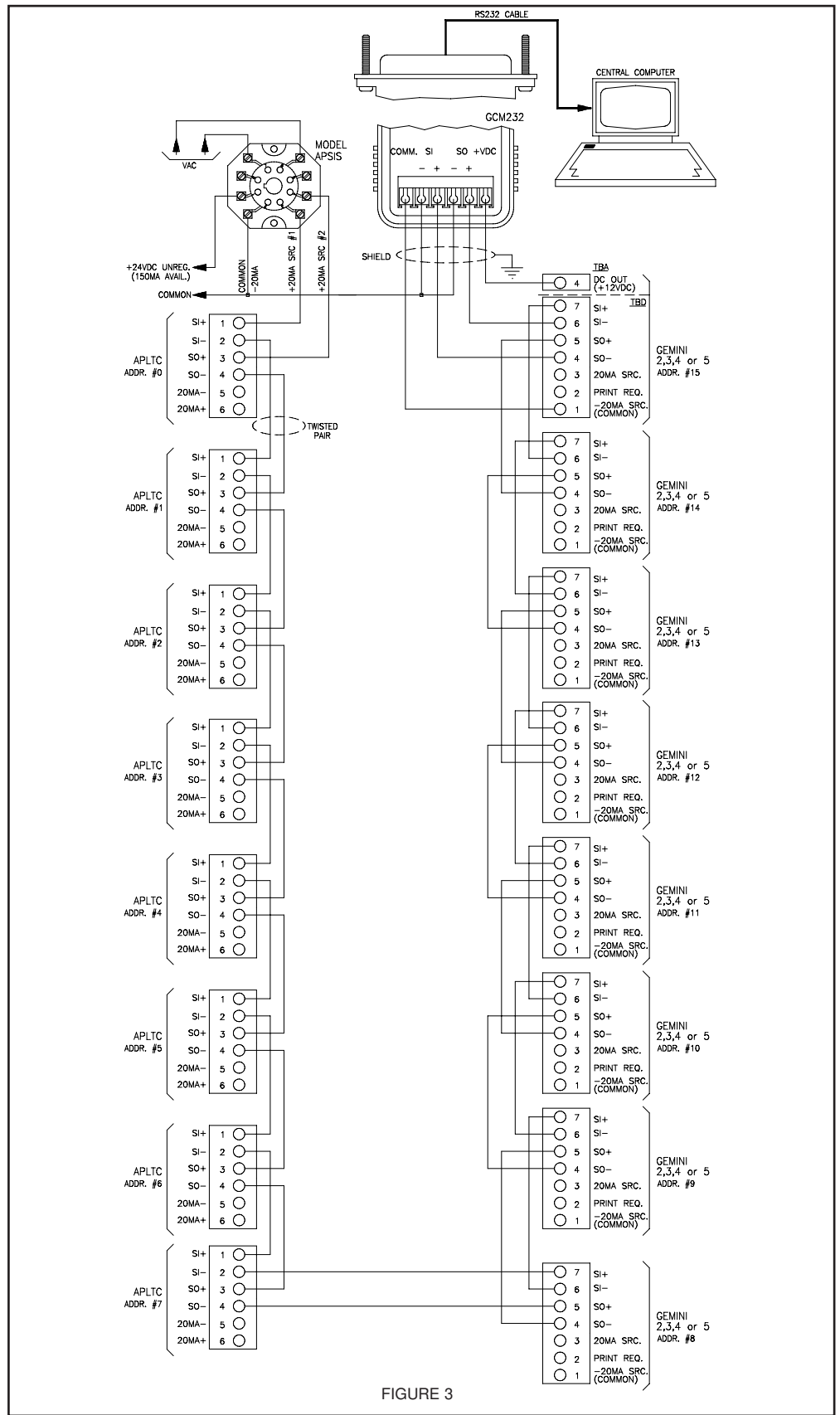
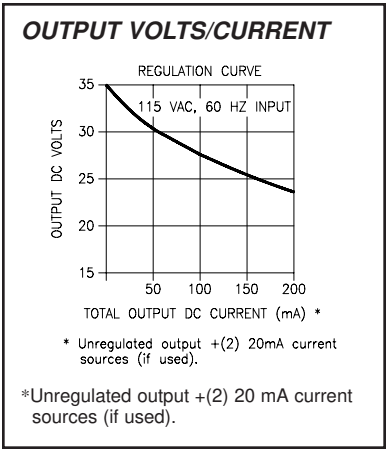


FIGURE 3

## ORDERING INFORMATION

MODEL NO.	DESCRIPTION	PART NUMBERS FOR AVAILABLE SUPPLY VOLTAGES	
		230 VAC	115 VAC
APSIS	Accessory Power Supply- Current Source	APSIS010	APSIS000
—	Base Mount, 8-Pin Octal Socket	SKT10000	
—	Din Rail Mount, 8-Pin Octal Socket	SKTDIN00	