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Bhopal	Hubli	Kota	Moradabad	Salem	Trichy	Vishkhapatnam
Bhubaneshwar	neshwar Due to continuous development, specifications and features are subject to change without prior notice.					





ATyS Automatic Transfer Switch From 125 A TO 3200 A







Socomec HPL: leading the field in changeover switching

Disconnection, breaking, control...Since 1922 Socomec HPL has gained a wealth of experience in these fields. The excellent worldwide reputation of its products both in industrial and commercial LV electrical installations is due to their high quality and reliability.

The back-to-back manual changeover switch, invented by Socomec HPL and now available in a compact motorised version, has become the world reference in power switching.

ATyS: intelligent integration of control

and electronic protection

A leader in electrical control and protection, Socomec HPL is breaking new ground by combining its expertise in this field with its breaking systems. The result: an innovative technological concept for intelligent switching of energy supplies.

ATyS:

a practical response to is IEC and EN 60947-6-1 switching requirements

The new ATyS switching range has been designed, tested and proven according to the criteria in the international standard IEC 60947-6-1.

Its compliance with this standard guarantees a quality product which meets all the requirements of automatic transfer.

Fits where you want it

> Back plate mounting



ATyS products can be mounted on the back plate of the cabinet with optional connection to remote interfaces with controlled access.

> Flush mounting



ATyS products can be mounted to enable direct external access to the command and display interface.





The "plug and play" changeover switch

The normal/backup function is operational as soon as the power cables are connected!

CHANGEOVER

Two mechanicallyinterlocked switches.

OPERATION

A motorised unit and manual backup switch.

MONITORING AND CONTROL

Integrated electronic relay.

CONFIGURATION AND DISPLAY

Ergonomic, upgradeable interface.

INSTALLATION

Compact integrated solutions facilitate installation and connections.

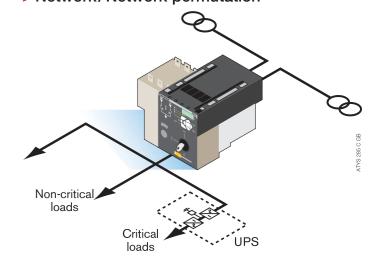


SECURE SWITCHING FOR ALL YOUR APPLICATIONS

> Network/Generator set permutation

GE

> Network/Network permutation



A new intelligent, modular switching concept

A COMPACT SECURE TRANSFER SYSTEM

- > Two load break switches with high short circuit withstand
- > Safety disconnection between loads and upstream power sources
- > Back-to-back assembly from factory garantees interlocking
- > Load bridging made easy by using the bridging bars available as accessories



A SIMPLE, ADAPTABLE CONTROL MODULE

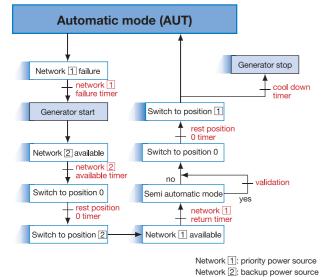
- > Easy selection of automatic or manual control
- > Handle for manual operation
- > Padlockable facility





COMPLETE CONTROL FUNCTIONS

- > Voltage/frequency detection limits and verification of phase rotation
- > Switching cycles can be pre-programmed or customised



DEDICATED CONTROL LOGIC

- > Genset start/stop control
- > Luminous mimic diagram showing status of power sources and position of
- > Screen displays programmed and controlled values
- the switch
- > Run "permutation cycle" tests either on or off load
- > Electrical position control (via keypad or remote)

FLEXIBLE UPGRADEABILITY

- > Plug-in optional modules
- RS 485 JBUS/Modbus communication module (programming software can be downloaded from the Socomec site:
- www.socomec.com)



- > Dedicated accessories
- Voltage sensing and supply kit



liary contacts...

• ATyS D10 and D20 remote



Module configurable with

2 Inputs/2 Outputs (network

priority, load shedding, remote

manual re-transfer etc.)

ATyS D10/D20 remote interface with R.I45 connection



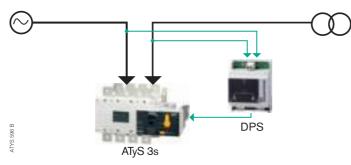
> A double power supply module

• Bridging bars, terminal shrouds,

terminal screens, optional

padlocking in 3 positions, special locks, additional auxi-

The DPS module allows the ATyS 3s to be powered from the available source (Normal/Emergency).



EASY MAINTENANCE

> The motorised module and the control module can be replaced seperately without disconnecting the power connections



ATyS

A complete range for both industrial and commercial low voltage applications

	> ATyS 3		> ATyS 6		> ATyS co	ntroller	
	switch for co	A motorised changeover switch for connection to a power supply		A changeover system with an autonomous power source (ATS)**		A universal relay for power source switching	
	- D		- B				
	O	NA SORO	138 88 0 C		ATyS C20***	**	
	ATyS 3s*	ATyS 3e	ATyS 6e	ATyS 6m	ATyS C30	ATyS C40	
MOTORISED CHANGEOVER	-	-	-			-	
Manual backup switch · Can be padlocked in 3 positions	•	•	•	•			
Auto/Manual mode selector · Auxiliary contacts (status indicator)	•	•	•	•			
Two power sources · Uses the present source		•	•	•			
NORMAL/BACKUP CONTROL RELAY							
Single phase voltage measurement on network						•	
Three phases voltage measurement on network 1			•	•	•		
Single phase voltage measurement on network 2					•	•	
Three phase voltage measurement on network 2			•	•			
Can be used to start/stop a generator set			•	•	•		
Can be used to start/stop two generator sets						•	
Frequency sensing on network 1 and 2			•	•	•	•	
Loss of mains timer, return of mains timer, dead band stay in 0 position and generator set cooling down timers			•	•	•	•	
Remote start/stop the automatique mode			•	•		•	
Test sequences			•	•	•	•	
Fault relay			•	•			
Electrical controls for position			•	•			
Measurement of I, P, Q, S, PF, neutral current calculation				•			
Large backlit display				•			
OPTIONS							
Optional communication module		•	•	•			
2 Inputs/2 Outputs optional module***		•	•	•			
ATyS D10 and ATyS D20 interfaces connection			•	•	•		
Double power supply	•						

SOCOMEC HPL CAN ALSO PROVIDE: See Next Page

*** 2 inputs/2 outputs as standard on ATyS C30.

**** ATyS C20 has no provision for D10 / D20 connection Please contact us for full functional specification.



Electronic Energy Meters

Supplied more than 5 million Pilfer Proof Meter Boxes to various utilities / Electricity Boards, such as MPSEB, CSEB, DHBVN, APSEB, MSEDCL, J&K, ASEB etc.







Meter Cupboard with Hinge type locking arrangement moulded in Opaque Engineering Plastic



Meter Cupboard with Hinge type locking arrangement moulded in Transparent Engineering Plastic



Meter Cupboard with Snap fit arrangement moulded in Poly Carbonate

Salient Features

- ✓ Made of UV stabilised transparent polycarbonate / Flame retardant high grade engineering plastic
- Available in Transparent and Non transparent models
- ✓ Unique arrangement for pilfer proof interlocking with push fit and hinge type boxes
- Suitable for indoor and outdoor applications
- ✓ Complying to IS:14772 and tested at CIPET
- ✓ Sealable optical port provision on the cover of the meter box
- ✓ Sealable push buttons provided on the box cover
- ✓ Latest state of the art in house tool room to design meter boxes for special application
- ✓ Large capacity in house moulding for quick and bulk supplies

HPL INDIA LTD.



www.hplindia.com

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Electronic Energy Meters

An accurate & reliable instrument



Salient Features

- ✓ Instantaneous Start
- ✓ Low power consumption less than 1wt. saving of more than 30% over coventional meters
- ✓ Meter records correct energy with same accuracy under reverse current connection
- ✓ LCD / LED's indication for current reversal tampering and phase availability
- ✓ Optional: Optical port / RS 232 communication for LCD Meter
- ✓ An ISO-9001:2000 Company
- Suitable for AMR with meter with optical port.





Electronic Energy Meters

MODEL SPEM 01 : Available in class 1 accuracy as per IS : 13779



*Other rating on request

Design

-/5A CT Operated

- ► Asic based digital technology ensures superior & drift free long term performance and reliability.
- Tamper proof design
- No frequent adjustments required
- No mechanical wear & tear.
- Immune to effects of external magnetic field as per IS: 13779

Accuracy

- Accuracy irrespective of mounting
- Accuracy maintained even under wide voltage fluctuation from -40% to +20% of Vref.
- Accurate reading even under rapid current fluctuation

Anti Tamper Features

- Meter Records correct energy with same accuracy under reverse current connection
- For Indication please refer the technical specification.
- Phase available indication provided
- Meter works accurately under earth load condition

Technical Specification - Single Phase

	•	0		
Reference voltage	240V			
Reference Frequency	50Hz			
Starting current	0.4% of basic current for direct conr	nected meters and 0.2% of basic current for		
-	CT operated meters			
Operating temp10°C to 60°C				
Overload Capacity 400% and 600% of basic current for		direct reading		
Power consumption	Less than 1.0 watt			
Versions Available				
Display Type	Electromechanical counter	LCD display		
Sheet steel enclosure /	2.5/10A, 5/20A, 5/30A, 10/40A,	LCD display meters available only in		
Rating	-/5A(CT operated)	polycarbonate		
Polycarbonate enclosure	2.5/10A, 5/20A, 5/30A, 10/40A,	2.5/10A, 5/20A, 5/30A, 10/40A, 10/60A, CT		
Rating	10/60A, -/5A (CT operated)	operated meters available with -/5A and CT		
		secondary in multiples of 5 upto 500/5A		
Indications	LEDs provided on front window for	LEDs provided on front window for :		
	following indications:	Meter calibration		
	 Meter calibration 	LCD icons indication for the following:		
	 Reverse indication 	Reverse indication		
	 Phase available indication and 	Phase available indication and		
	 Earth tamper indication 	Earth tamper indication		
	Lata tampor maloation	- Latur tamper mulcation		







Electronic Energy Meters

MODEL PPEM 01: Available in class 1 accuracy as per IS: 13779



5-20A, 10-40A, 10-60A, 10-80A -/5A CT Operated

Technical Specification - Three Phase

	•		
Reference voltage	3 x 240V		
Reference Frequency	50Hz		
Starting current	0.4% of basic current for direct connected meters and 0.2% of basic current for CT operated meters		
Operating temp.	-10°C to 60°C		
Enclosure	Poly carbonate		
Overload Capacity	400% and 600% of basic current for direct reading		
Power consumption	Less than 1.0 watt		
Versions Available			
Display Type	Electromechanical counter	LCD display	
Rating	Direct connected:5/20A, 10/40A, 10/60A CT operated:-/5A, 50/5A, 75/5A, 100/5A, 125/5A, 150/5A, 200/5A, 250/5A, 300/5A, 400/5A, 500/5A, 600/5A, 800/5A		
Indications	LEDs provided on front window for following indications: • Meter calibration • Reverse indication and • Phase available indication	LEDs provided on front window for: • Meter calibration LCD icons indication for the following: • Reverse indication • Phase available indication and	





Design

- Asic based digital technology ensures superior & drift free long term performance and reliability.
- Tamper proof design
- No frequent adjustments required
- No mechanical wear & tear.
- ► Immune to effects of external magnetic fieldas per 13779.

Accuracy

- Accuracy irrespective of mounting
- Accuracy maintained even under wide voltage fluctuation from -40% to +20% of
- Accurate reading even under rapid current fluctuation
- Accurate for balance as well as unbalance loads.

Anti Tamper Features

- ▶ Meter Records correct energy with same accuracy under reverse current connection.
- For Indication please refer the technical specification.
- Phase available indication provided



Electronic Energy Meters

An accurate & reliable instrument



SALIENT FEATURES

- Instantaneous Start
- Low power consumption less than 1watt.
 Saving of more than 30% over coventional meters
- Meter records correct energy with same accuracy under reverse current connection
- LED indication for current reversal tampering and phase availability
- An ISO-9001:2000 Company



MODEL SPEM 01: Available in class 1accuracy as per IEC 61036 & IS: 13779



Design

- ASIC based digital technology ensures superior & drift free long term performance and reliability.
- Tamper proof design
- No frequent adjustments required
- No mechanical wear & tear.
- No effects of external magnetic field.

Accuracy

- Accuracy irrespective of mounting position
- Accuracy maintained even under wide voltage fluctuation from 120V - 300V input supply
- Accurate reading even under rapid current fluctuation

Technical Specification

Туре	SPEM 01
Reference Voltage	240V
Reference Frequency	50 Hz
Starting current	0.4% of basic current.
Display	Electromechanical Counter with one decimal.
	The digit wheels are made of Delerine.
Operating temp.	-10°C to 60°C
Enclosure	Sheet Steel Body / Polycarbonate Body
Overload Capacity	400% & 600% of basic current
Power consumption	Less than 1.0 watt.
LEDs / LCD Icons	Four LEDs / LCD Icons provided on front Window for following
	indications:
	Meter Calibration, Reverse Indication, Phase
	Available Indication & Earth Tamper Indication

Anti Tamper Features

- Meter Records correct energy with same accuracy under reverse current connection
- LED indication for current reversal tampering provided
- Phase available indication provided
- Meter works accurately under earth load condition







MODEL PPEM 01: Available in class 1 and class 2 accuracy as per IEC 61036 & IS: 13779



Other Available 5-20A, 10-40A, 10-60A



Other rating on reques

Technical Specification

Tuno	PPEM 01
Туре	PPEIVI U I
Reference Voltage	240V
Reference Frequency	50 Hz
Starting current	0.4% of basic current.
Display	Electromechanical Counter with one decimal.
	The digit wheels are made of Delerine.
Operating temp.	-10°C to 60°C
Enclosure	Sheet Steel Body / Polycarbonate Body
Overload Capacity	400% & 600% of basic current
Power consumption	Less than 1.0 watt. per Phase
LEDs / LCD icons	Five LEDs / LCD icons provided on front Window for following
	indications :
	Meter Calibration, Reverse Indication,
	Phase Available Indication of each phase





Design

- ASIC based digital technology ensures superior&driftfreelongterm performance and reliability.
- Tamper proof design
- No frequent adjustments required
- No mechanical wear & tear.
- No effects of external magnetic field.

Accuracy

- Accuracy irrespective of mounting position.
- Accuracy maintained even under wide voltage fluctuation from 120V - 300V input supply at basic current.
- Accurate reading even under rapid current fluctuation
- Accurate for balance as well as unbalance loads.

Anti Tamper Features

- Meter Records correct energy with same accuracy underreverse current connection.
- LED indication for current reversal tampering provided.
- Phase available indication provided



HPL-SOCOMEC has supplied more than 2 million Nos. of Pilfer Proof Meter Boxes with snap fit locking arrangement to various Electricity Boards, such as MPSEB, CSEB, DHBVN, UHBVN, APSEB etc.







Meter Cupboard with Hinge & Celling arrangement moulded in Engineereing Plastic



Meter Cupboard with Snap fit arrangement moulded in Poly Carbonate

Other Prodcuts



emfis



kWh Panel Mounted Meter Counter Display



kWh Panel Mounted Meter **LCD** Display



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an Indo-French joint venture

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