



RMS AUTOMATION SYSTEMS LTD.

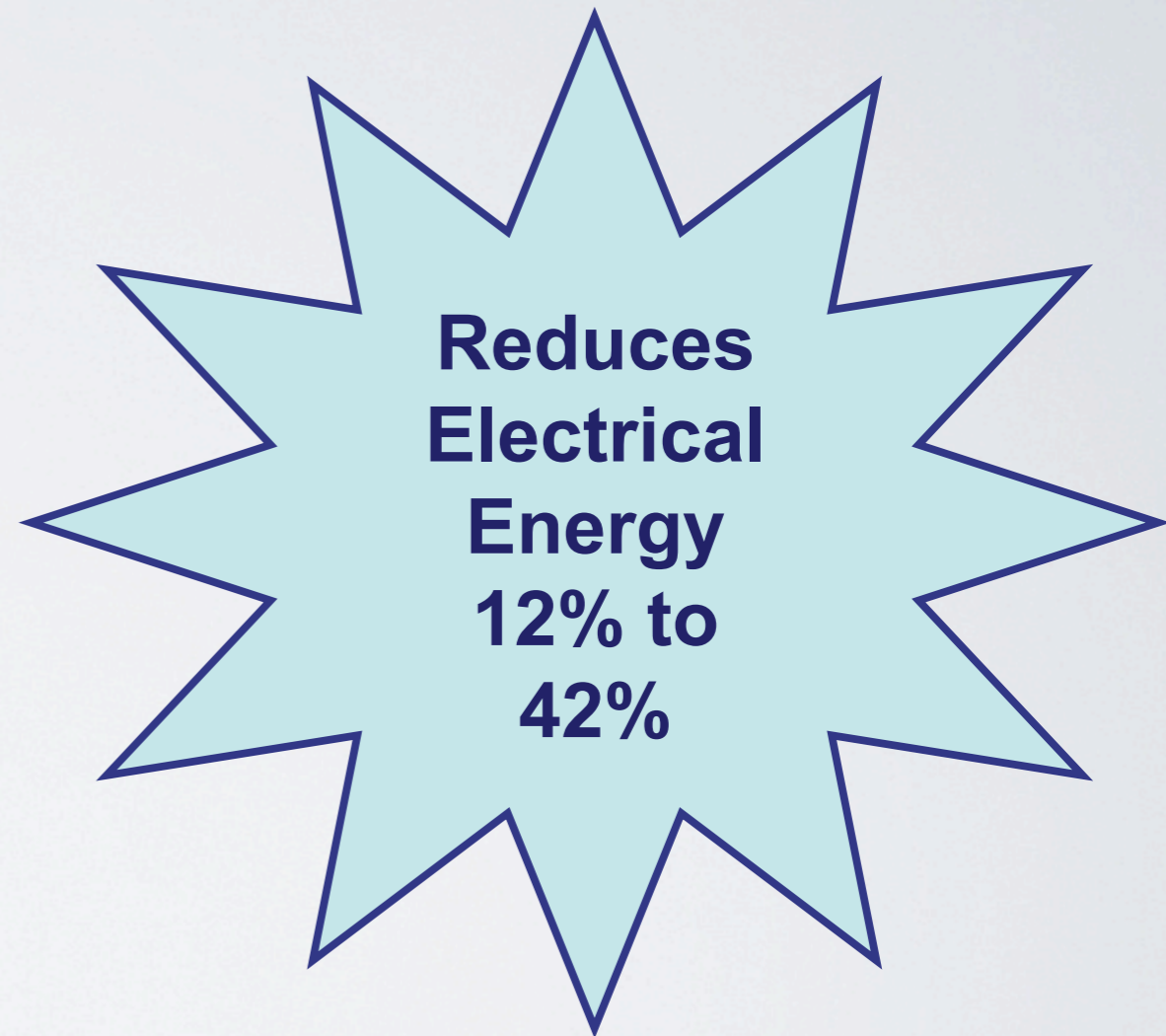
LIGHTING CONTROL
ENERGY CONSERVATION SOLUTIONS.

LIGHTING CONTROL & ENERGY CONSERVATION SOLUTIONS

- Street Lighting
- Public Area Lighting (High Mast)
- Industrial Lighting
- Commercial & Hospital Building Installations
- Car Park Areas
- Domestic Lighting

ENERGY SAVINGS WITH VARIOUS LAMPS

- Fluorescent Lamps with Cu or Al Ballasts
- C.F.L.
- Sodium and Mercury Vapor Lamps
- Metal Halide Lamps
- LED Lamps



VARIOUS METHODS FOR ENERGY CONSERVATION

- Voltage Control
- Selective Area & Timing Control Switching
- Phase Cut-Off Control

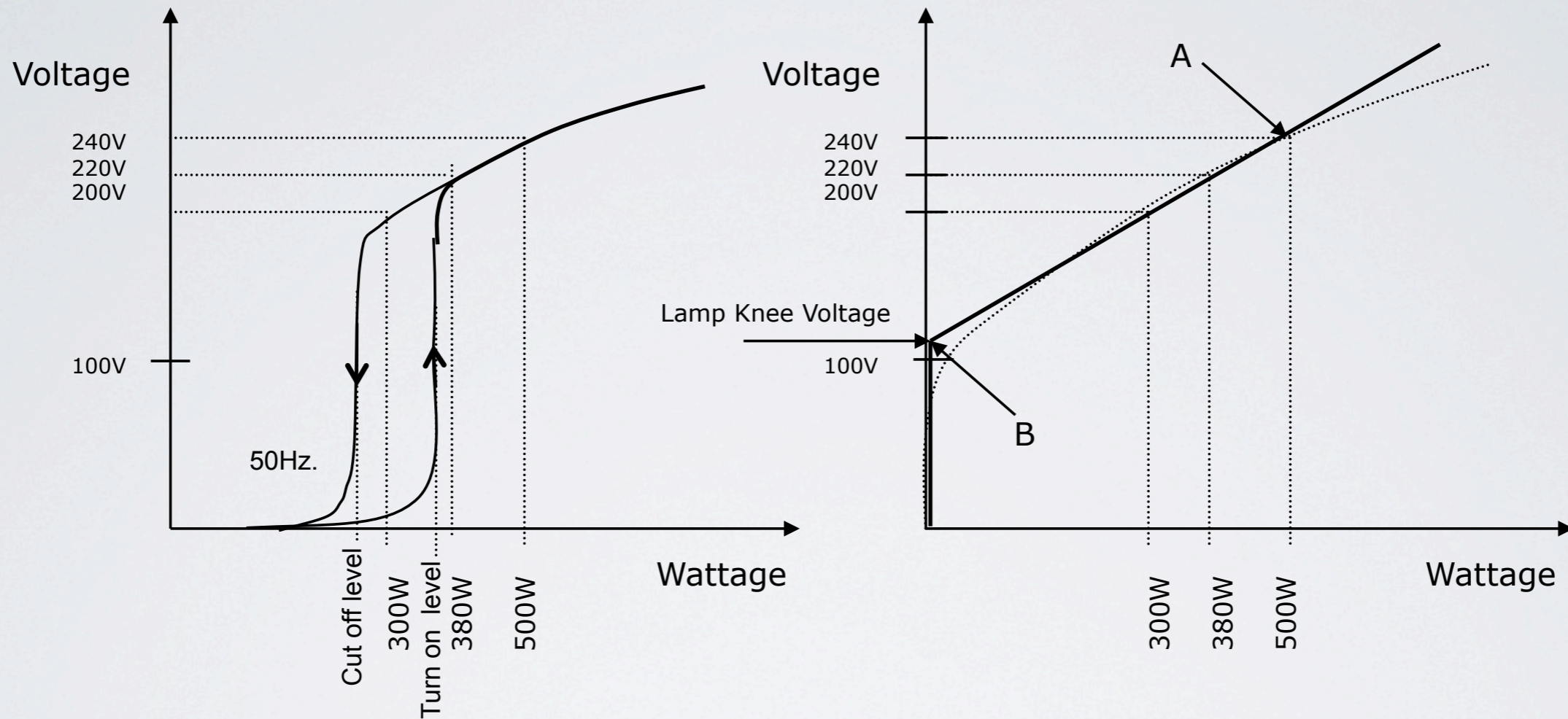
FEATURES TO SUIT YOUR REQUIREMENTS

- Saves upto 42% energy with specific conditions. Typical Energy Saving value 20%-32%
- Schedule Control - Multiple Schedule Allotment (Indoor)
- Programmable Sunset/Sunrise Time Control (Street Light)
- Automatic Switching to full intensity for Assured turn-on of Fluorescent lamps.
- Data Logging within the Unit
- Remote Access Control through Wireless GSM or Wired RS-232/485
- Smooth (Step-less) or Stepped control with Blink-free Switchovers.
- Complete Display of all Parameters like Voltage, Current, Power and Energy

SPECIFICATIONS

- Suitable for 3-phase and 1-phase supply applications
- Supply voltage $\pm 15\%$ Variations
- Supply 415V -3 phase or 240V-1 phase AC - 50 Hz
- Energy Saving - 10% to 40% (Depending upto lamps used)
- Efficiency improvement of lamps by 5% to 20%
- Enclosure class - From IP-32 to IP-54 (IP-56 with only Sp. needs)
- Measurement Accuracy class I as per IEC - 62053 part 21/22
- Measurement Sensitivity for current - upto 0.8% of rated current
- Time Accuracy - 1 min in 1 year
- PF Regulation with ± 0.98
- Operating temp: 0° - 50°C
Storage temp: -10° - 75°C
- Relative Humidity: 0% to 97% RH
- Max Altitude - 1,500 meters
- Max temp rise: +15°C
- MS-Windows Compatible Software for GSM Communication, Data Downloading and Viewing
- MS- Windows Compatible Software for Adjusting Sunset/Sunrise timing

VARIOUS METHODS FOR ENERGY CONSERVATION IN LAMPS



- Selective Area and Timing Control Switching

- Phase Cut-Off Control

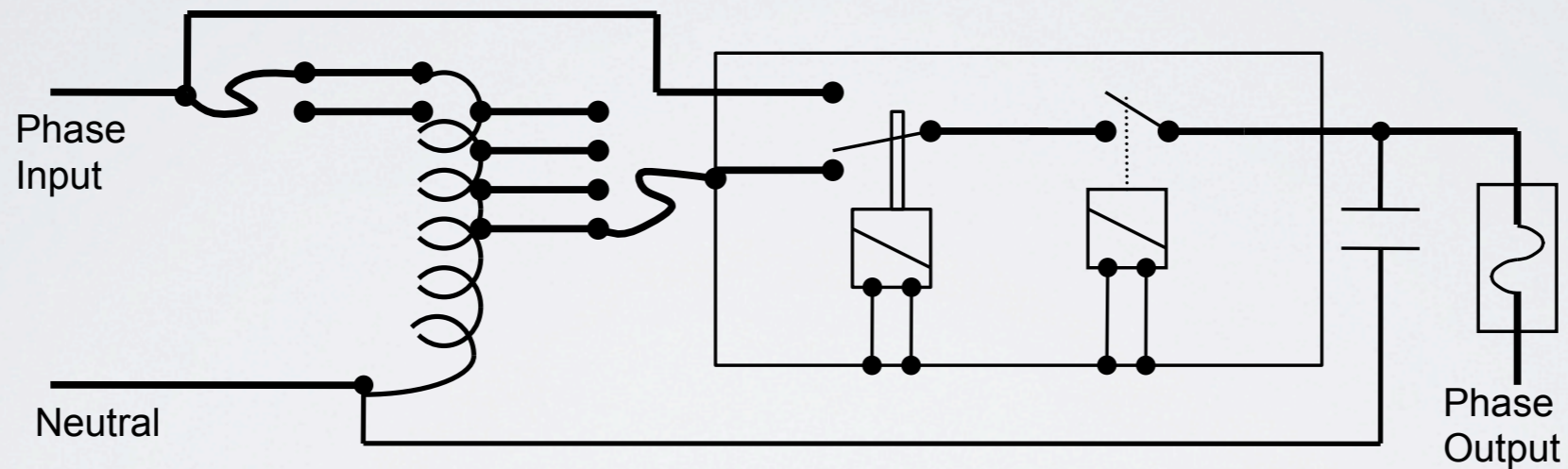
VARIOUS MODELS

- Single Phase Models for Small Office, Shops, Banks and Domestic Applications. Available with Rating from 1kVA to 15kVA
- Three Phase Models for Indoor applications like Industries, Commercial Buildings, Hospital, Car Park Areas, Part/ Exhibition Halls, Indoor Sport Stadium. Available with Rating from 3kVA to 63 kVA (+ higher rating with custom built)
- Three Phase Models for Street Light Applications. Available with Rating from 3kVA to 63 kVA (+ higher rating with custom built)

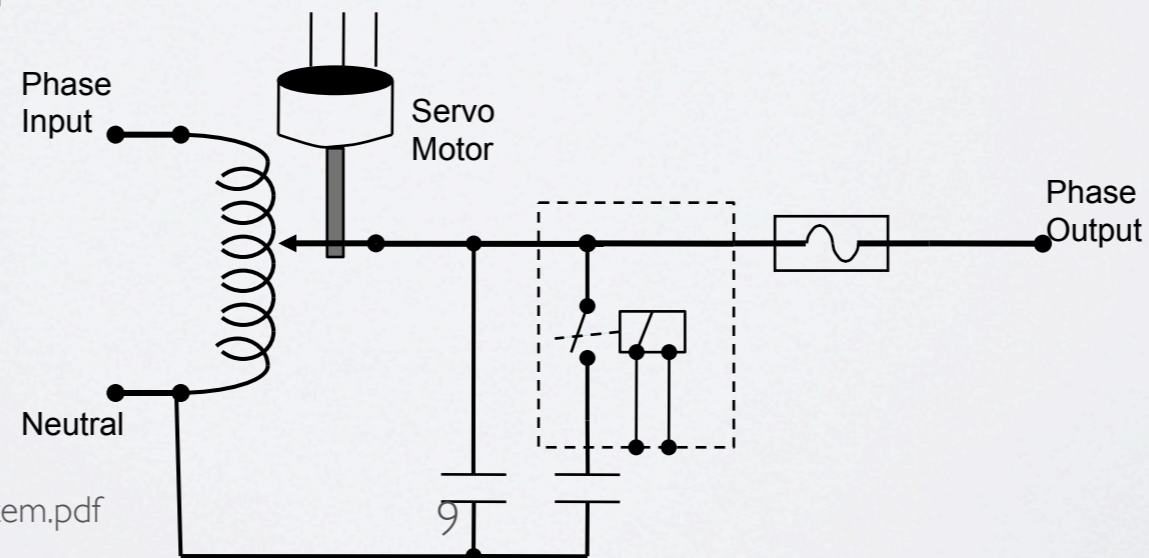
VARIOUS MODELS

- All Models are further divided into 2 categories

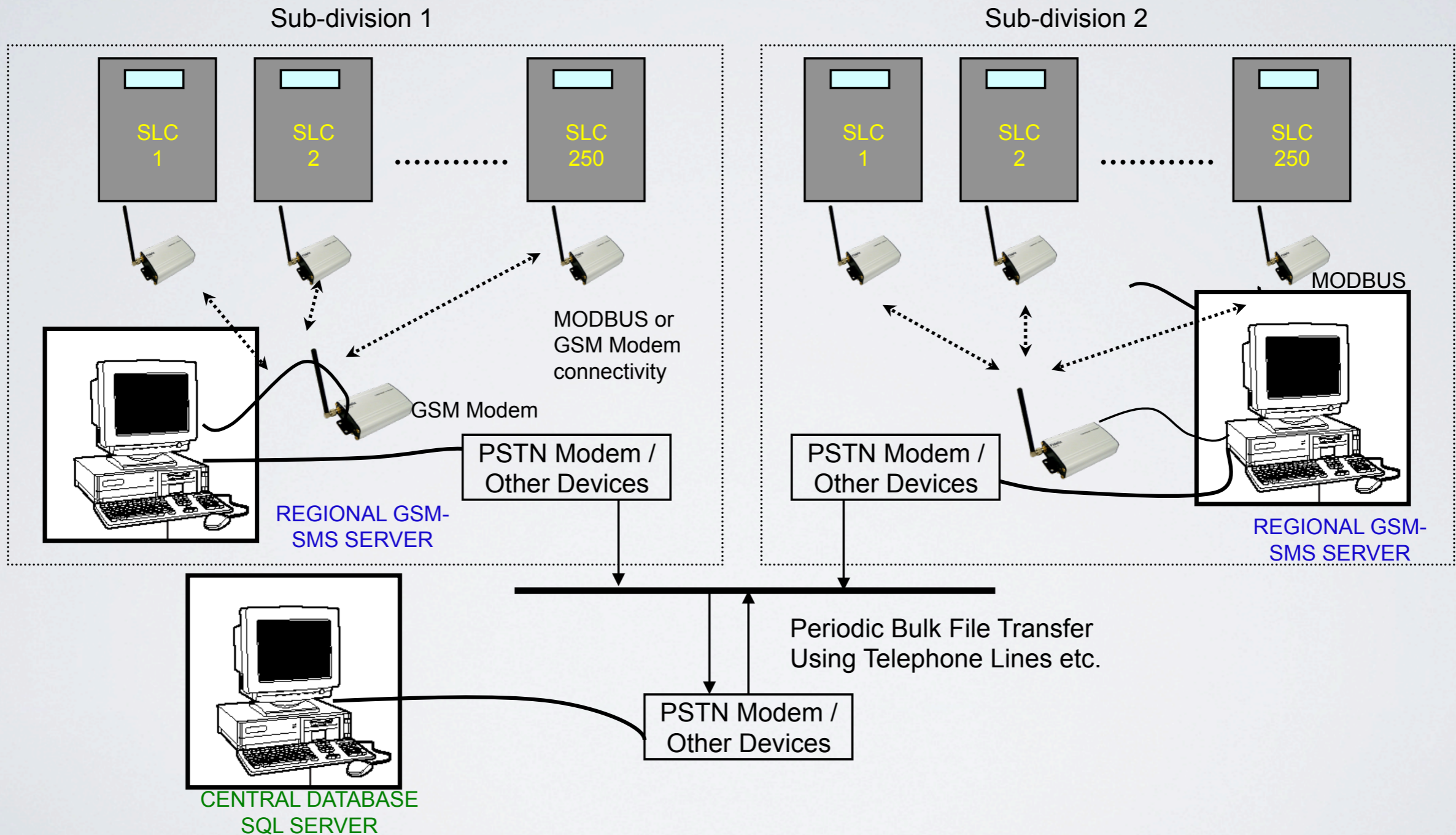
★ Electro-Mechanical Switching Type



★ Servo Control Type



COMPLETE SCADA CONNECTIVITY THROUGH MODBUS/GSM



MASTER PC TYPICAL SCREEN

Street Light Controller - [Data Viewer]

Master Data Viewer

Instantaneous Data
Recorded Data
Parameter
Remote Mode

Unit ID: Date: Time:

Per Phase Values				Overall Values
	R	Y	B	
V	239.1	240.8	242.5	240.8
I	8.9	9.2	8.3	8.8
KW	2.0	2.1	1.9	6.0
KVAR	0.5	0.4	0.2	1.1
KVA	2.1	2.2	2.0	6.1
PF	0.97	0.98	0.99	0.98

Energy Counters	
KWH	121.145
SKWH	30.125
KVAH	178.528
Saved KW	0.8

Faults	
Over Volt	
Under Volt	
Over Frequency	
Under Frequency	

ONLINE STATUS

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Legends

- Lamps on in bypass & PF OK
- Lamps on in bypass & PF out of range
- Lamps on in ESM & PF OK
- Lamps on in ESM & PF out of range
- Lamps off
- Faults
- No communication

MASTER PC TYPICAL SCREEN

Street Light Controller - [Data Viewer]

Instantaneous Data
Recorded Data
Parameter
Remote Mode

Unit ID:
From:
To:

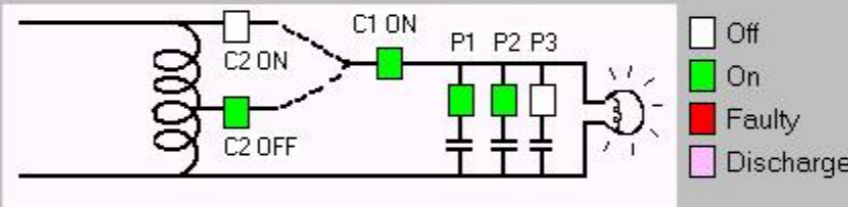
Unit ID	Date	Time	Volt_R	Volt_Y	Volt_B	Curr_R	Curr_Y	Curr_B
0001	10-Mar-09	18:00:00	239.1	249.8	242.5	8.9	9.2	

Date:
Time:

Per Phase Values				Overall Values
	R	Y	B	
V	239.1	249.8	242.5	240.8
I	8.9	9.2	8.3	8.8
KW	2.0	2.1	1.9	6.0
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MASTER PC TYPICAL SCREEN

Street Light Controller - [Data Viewer]

Master | Data Viewer

Instantaneous Data
Recorded Data
Parameter
Remote Mode

General and IO

Password: Disable Enable
 Change Password:
 Load Default: No Yes
 Reset Energy Cnt: No Yes

System

Measurement Voltage:
 Cur CT Primary:

Schedule Control

Enable Schedule: Fixed Sun Rise/Set
 Voltage Cntrl in ESM: Disable Enable
 Lamp Heating Time: Sec
 Load Variation Check: Disable Enable
 Load Variation Check: %
 Lamp Stability Time: Sec

Communication

Unit ID:
 Com 1:
 Baud Rate -Com1:
 Com 2:
 Baud Rate -Com2:
 Time:
 Date:
 Init RTC: No Yes
 ClnVRAM: No Yes
 Service Provider No:
 SMS Receiver No:

Step

PF Target: Capacitive Inductive
 Target Offset KVAR: No Action Band(+/-): KVAR
 Correction Time: Sec No. Of Steps:
 Discharge Time: Sec
 Step 1: KVAR Step 1:
 Step 2: KVAR Step 2:
 Step 3: KVAR Step 3:

Fixed Schedule

Sch No.	On Time		Off Time		ESM On Time		ESM Off Time	
	Hr	Min	Hr	Min	Hr	Min	Hr	Min
Sch 1	09	30	12	30	09	30	12	30
Sch 2	14	30	17	30	14	30	17	30
Sch 3	18	00	20	00	18	00	20	00
Sch 4	00	00	00	00	00	00	00	00
Sch 5	00	00	00	00	00	00	00	00
Sch 6	00	00	00	00	00	00	00	00
Sch 7	00	00	00	00	00	00	00	00
Sch 8	00	00	00	00	00	00	00	00

Sunrise Schedule

ESM ON Time: Hr : Min ESM Off Time: Hr : Min
 Twilight Time: Min
 Latitude Offset: Negative Positive Min

Faults

Fault	Limit (%)	Resume (%)	Action
Over Voltage	<input type="text" value="130"/>	<input type="text" value="110"/>	<input type="text" value="Off Step"/>
Under Voltage	<input type="text" value="70"/>	<input type="text" value="85"/>	<input type="text" value="Off Step"/>

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MASTER PC TYPICAL SCREEN

Unit Details

Unit ID :

Location :

Rated Voltage :

Rated Current :

UNIT ID	LOCATION	RATED_VOL	RATED_CUR
0036	1	415	1000
0025	TAS	415	1000
0026	TAS	415	125
0039	Nasik	415	100

Configuration

Serial Port Settings

Comm Port :

Baud Rate :

Data Bits :

Parity :

Stop Bits :

Mode Selection

Binary / RTU

ASCII

CONTACT US

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Thank You