

BRODERSEN

simplifying process

**The simple solution for
communicating with your
remote process using:**

**Telephone
Radio
GSM**



Brodersen Controls, Denmark - Germany - UK

BRODERSEN

simplifying process

**Brodersen supplies products
for process monitoring,
data logging, data
communication, control
and alarm handling.**



Brodersen Controls, Denmark - Germany - UK

Business areas:

**Water****Gas****Electricity****Telecommunication****Traffic****Environment****Asset Management****Building Management****Argriculture**

BRODERSEN

simplifying process

Our Heritage:

**Founded 1970 in Denmark,
Niels J. Brodersen has grown
the company from a small trading
business to one of Europe's
leading designers and
manufacturers of Process IT
components.**



Brodersen Controls, Denmark - Germany - UK

Our Mission and Concept:

To become market leaders in our field by being synonymous with

Simplifying Process

Simplifying Process is our mission, our marketing concept - and the promise we make to our customers.



BRODERSEN

simplifying process

Our Values and Culture:

Flexibility

Experience

Integrity

Partnerships

Expertise

Focus

Innovation



Brodersen Controls, Denmark - Germany - UK

How to find us?



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E Mail: bc@brodersencontrols.com

England: Brodersen Control Systems Ltd., Canbury Business Park, Unit 11
Elm Crescent, Kingston upon Thames, Surrey KT2 6HJ
Tel: +44 020 8546 4283, Fax: +44 020 8547 3628
E Mail: bcs@brodersen.co.uk

Germany: Brodersen Automation GmbH, Düsseldorfer Str. 138
D-45481 Mülheim a. d. Ruhr
Tel: +49 (0208) 46954-0, Fax: +49 (0208) 46954-50
E-Mail: ba@brodersen.de

Other: World wide distribution through
distributors and partners.

www.brodersencontrols.com



Process IT Product presentation:



Series 4010 RTU8



**Adjustable Data Log up to
480 Kbyte**

Modbus Interface

Both Master and Slave

Hayes Commands

Easy communication

Alarm Handling

Programmable

Software Counters

Built-in battery Charger



Series 4000 RTU/Data loggers

UCR-xx Modbus
Slave



UCR-??
Customer
designs



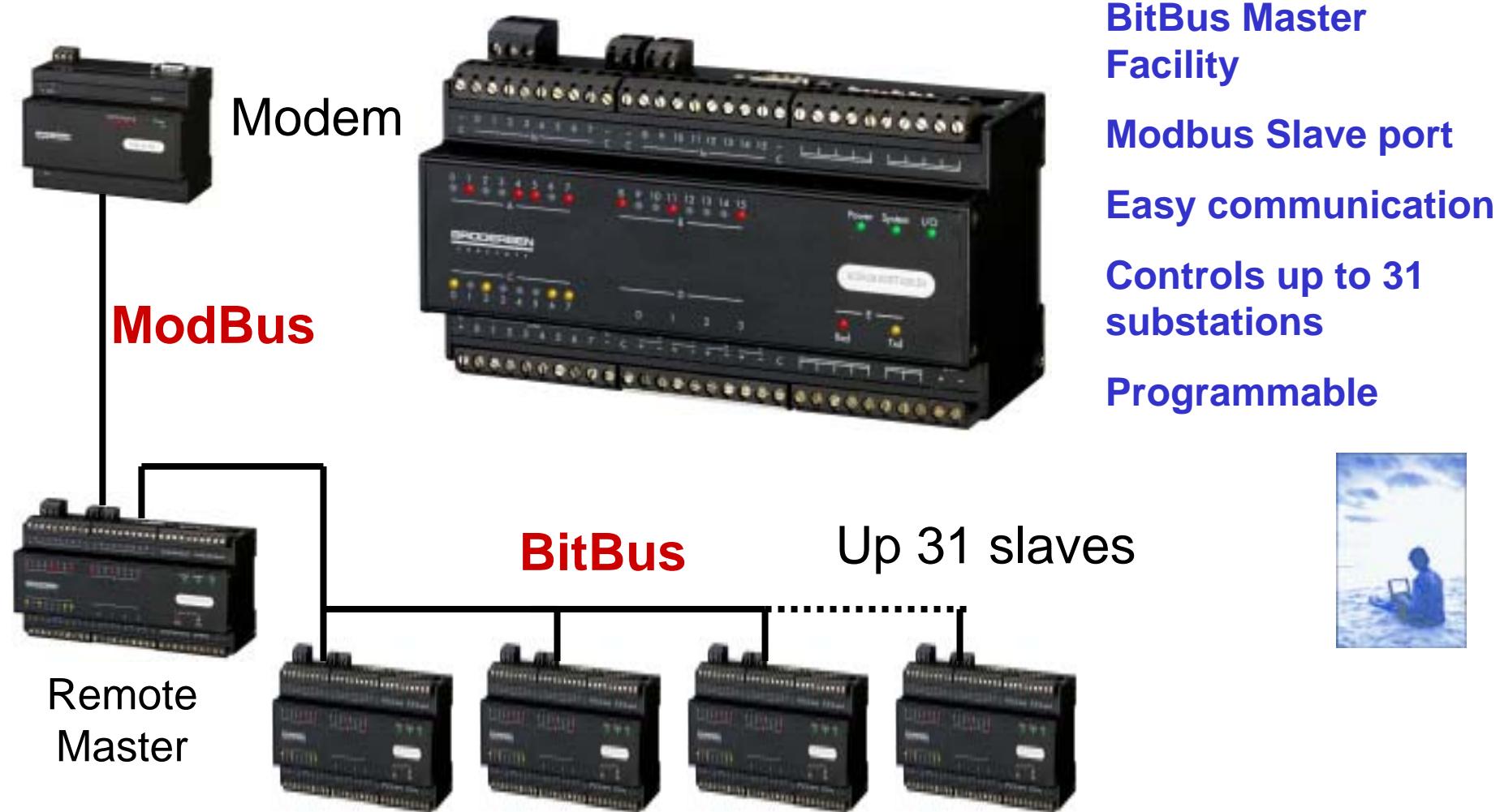
UCR-xx Modbus
Master



Remote Bitbus
Master



Series 4020 Remote Master



RTU Custom Design

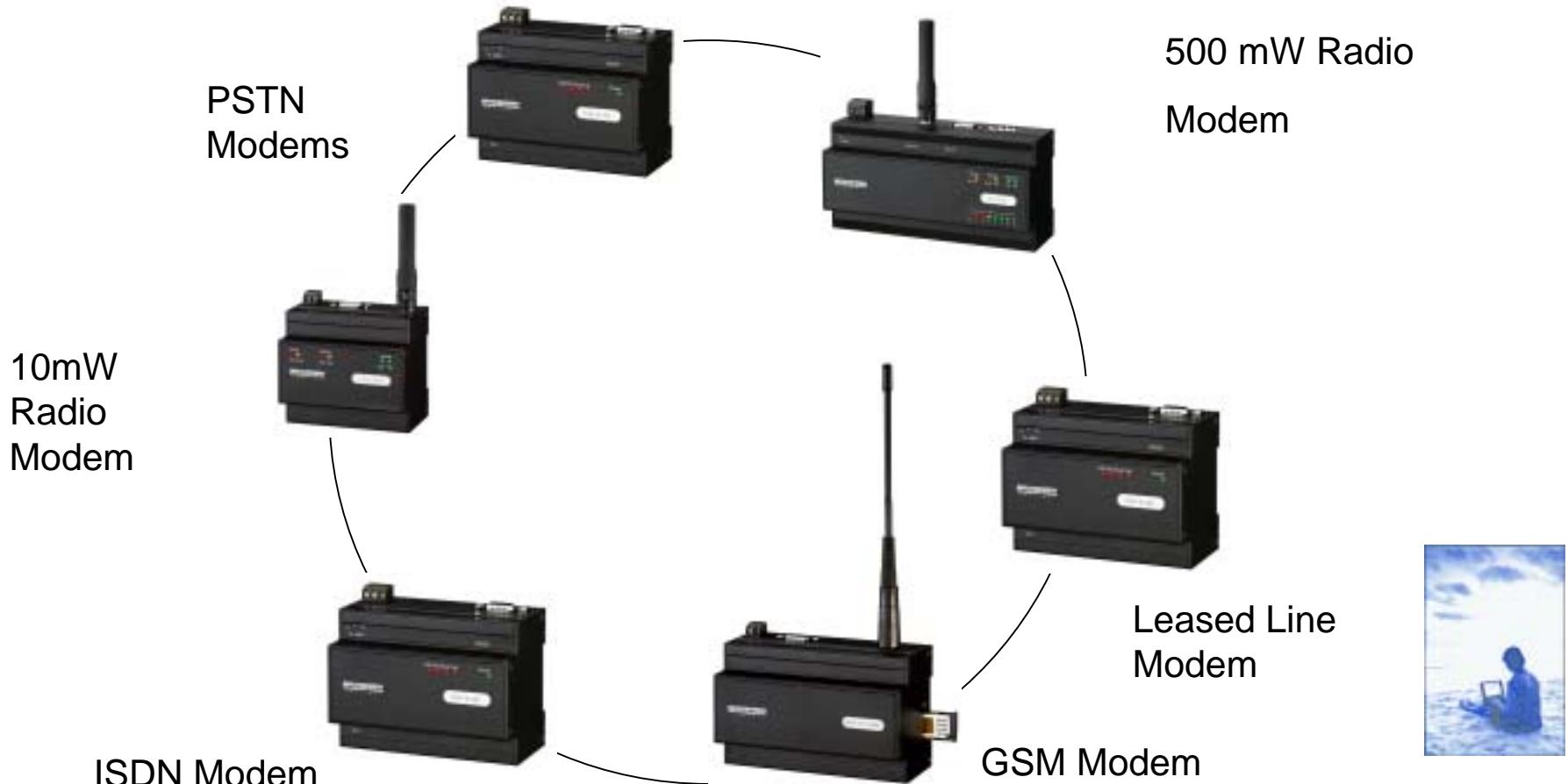


Brodersen Controls offer flexibility.



Brodersen Controls, Denmark - Germany - UK

Series 3000 Communication Modules



Series 3010 Industrial Telephone Modems

**UCM-81 V.32bis
14.4 kbps**



**UCM-82 V.34bis
33.6 kbps**

- Easy to Install
- Plug n Play
- Hayes Compatible
- Industrial Housing
- DIN Rail Mounting
- Isolated Telephone Line
- Isolated Power Supply



Brodersen Controls, Denmark - Germany - UK

UCM-87 Leased Line Modem

UCM-87

**V.32bis Leased
Line Modem.**

**Direct Line
communication at
distances up to 15
km**



Series 3020 GSM Modems

SMS

DATA

FAX

900 MHz

1800MHz

1900 MHz

Dual Band (option)



Series 3030 Radio Modems

UCW-10

ISM Licence Free

Up to 1 km

Serial Interface

Error Safe communication



UCW-50

Distance up to 8 km

Serial interface

Error safe communication



Brodersen Controls, Denmark - Germany - UK

Typical Telemetry Solution

UCR- Module



SCADA Software



Communication Module



IOTOOL32 Pro



Configuration



IOTOOl32 Pro



Upload Data



Interface to
most popular
SCADA
systems like:



ZenOn

InTouch

InControl

Fix

IgSS

Labview

Citect

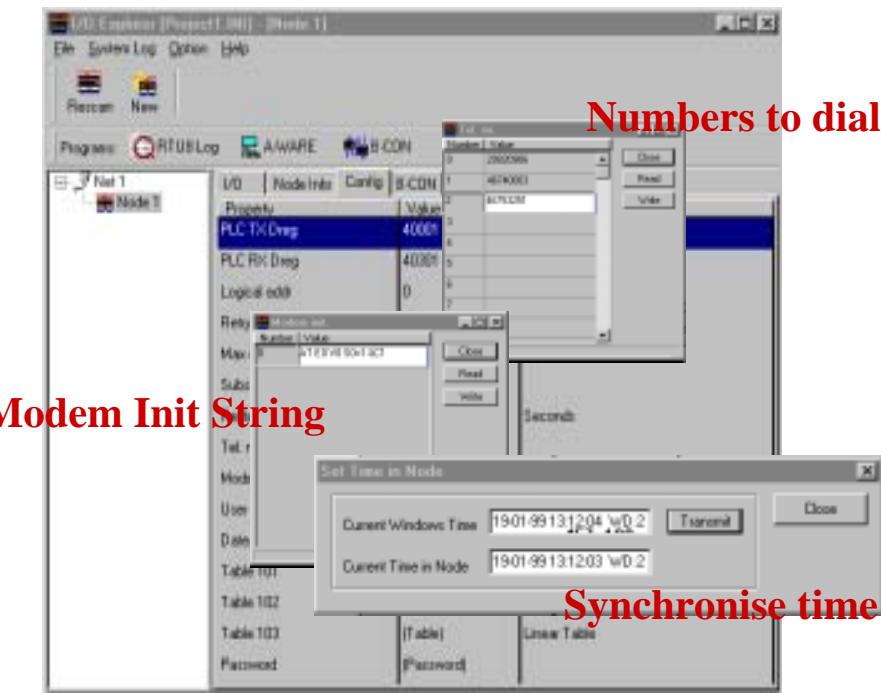
Factory Link

Microsoft Excel

Microsoft
Access

and many more

RTU Configuration



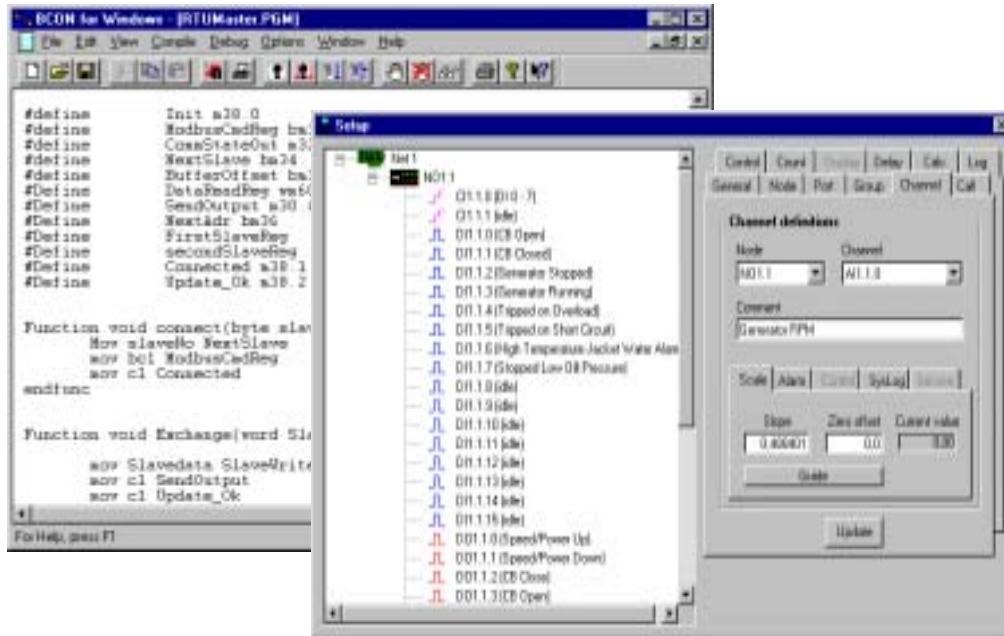
**Configuration of RTU parameters via:
Modem/Radio/GSM or direct Cable connection.**

Before or after installation



RTU Programming

B-CONW Programming Tool IEC-1131-3



A-WARE configuration Tool

Programming of RTU
Applications via:

Modem/Radio/GSM or
direct Cable connection.

Before or after
installation

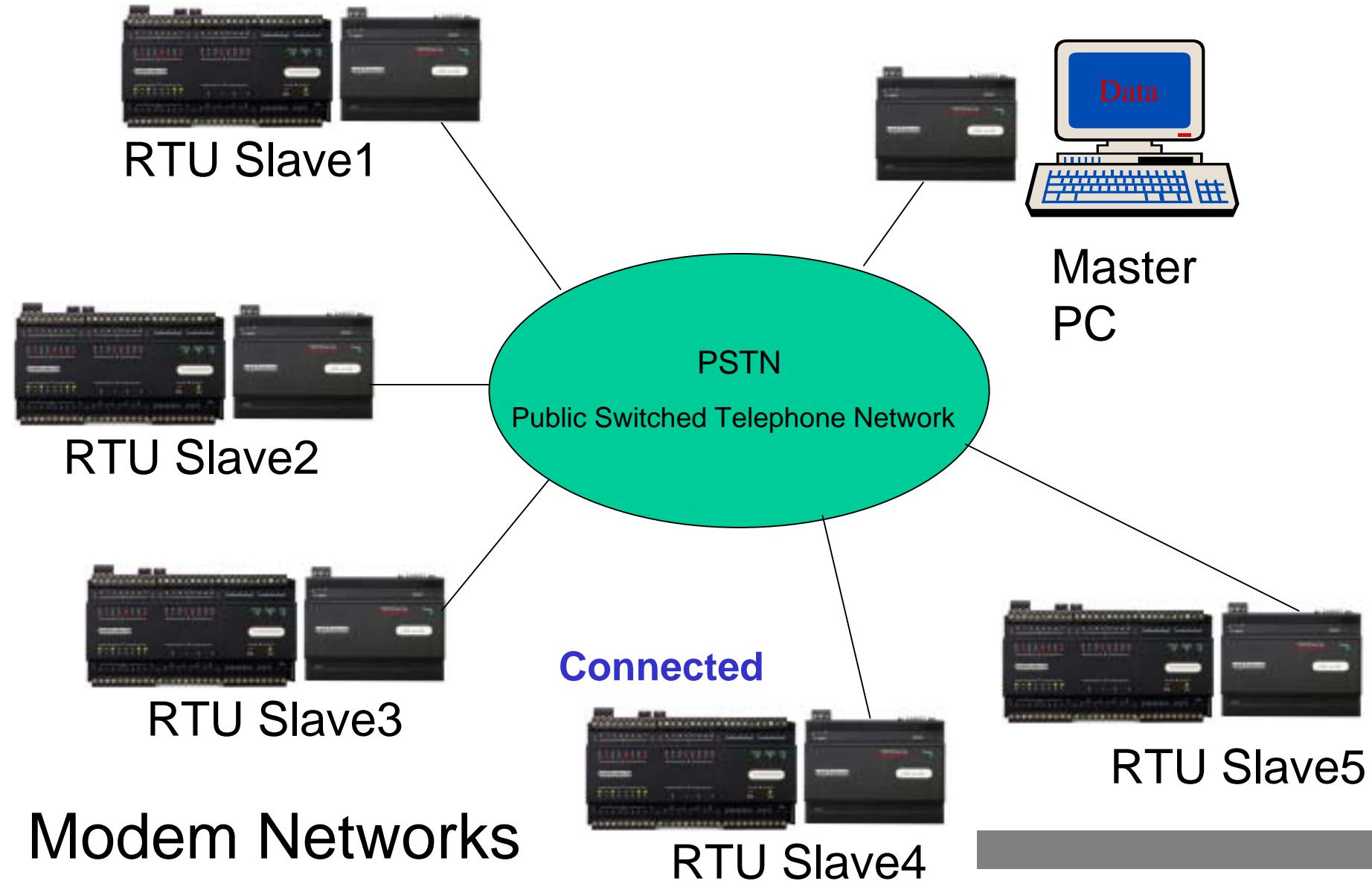


Applications

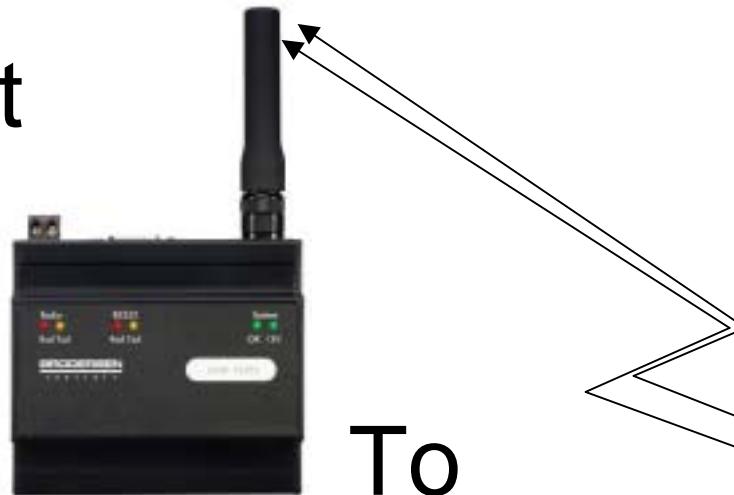
Telemetry Systems within

***Water, Gas, Electricity,
Telecommunications
Traffic
Environment
Asset Management
Building Management
Agriculture***



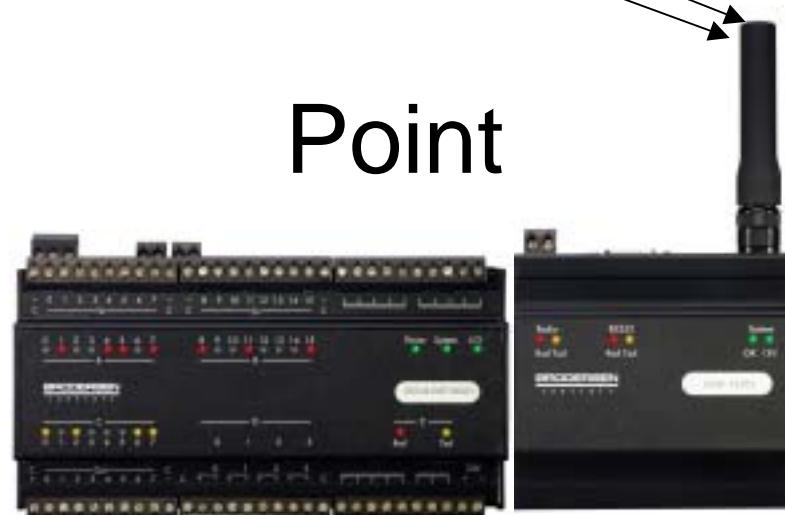


Point

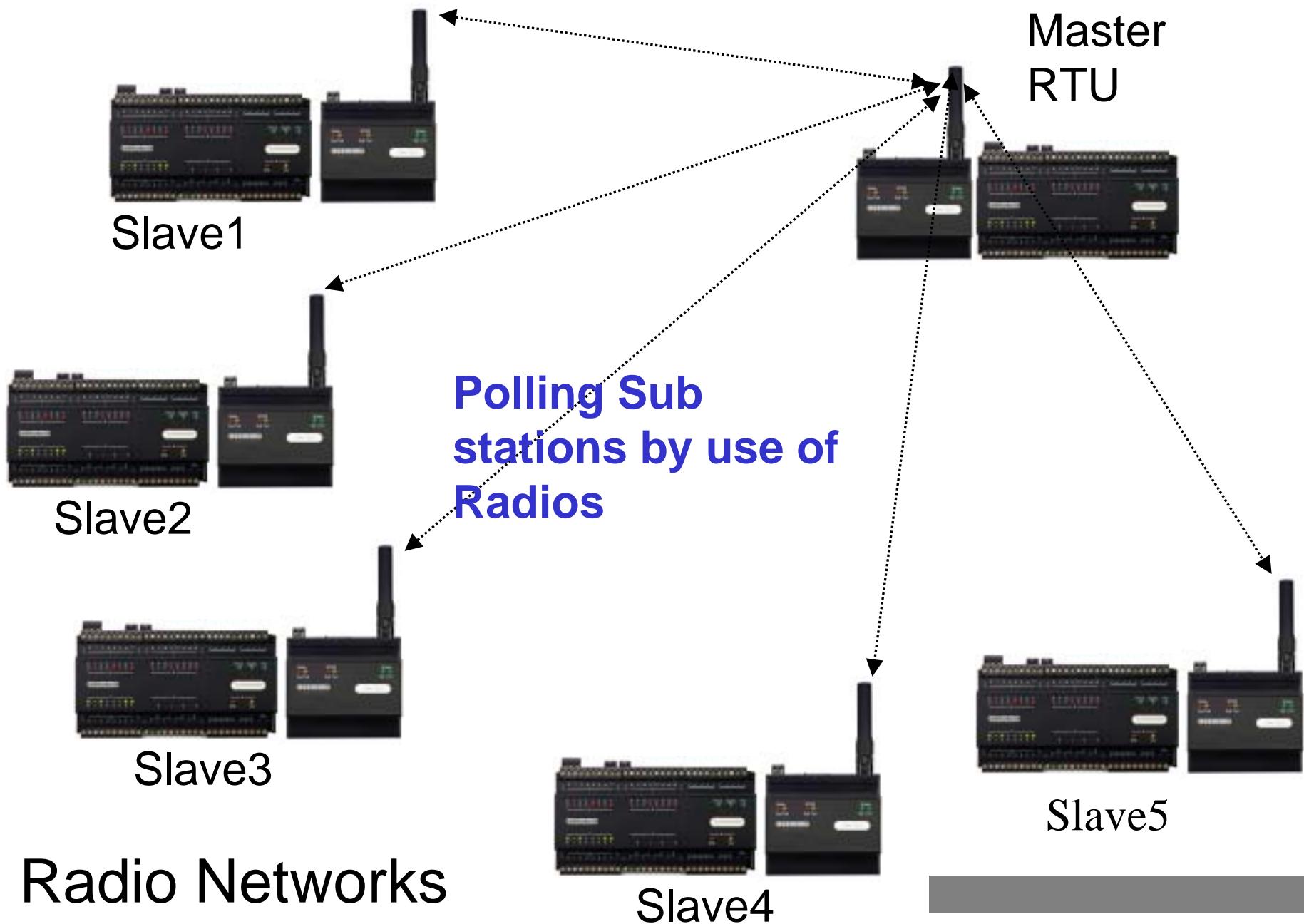


10mW
LicenceFree

Point

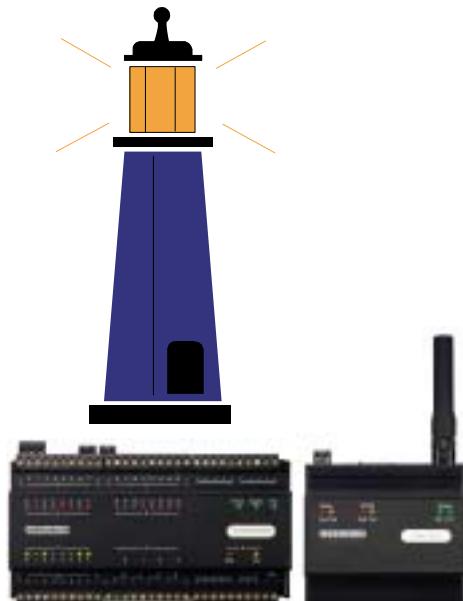


Wireless Data Transfer
using Radio Modems



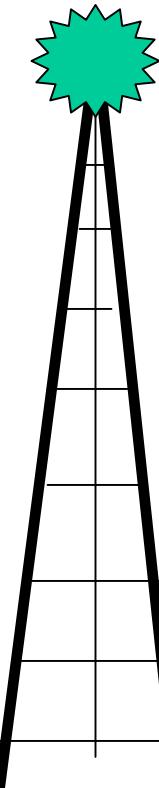
Bulb Broken

**Sending
Message**



Light House

GSM Installation



Master PC



Brodersen Controls, Denmark - Germany - UK

Brodersen Controls A/S

Component presentation:

Brodersen Controls A/S

Our Process Components support the industrial automations market.

Panel Builders

Machine Builders

Designers and suppliers of industrial processes



We are even "badging" products for other leading companies



Process Components

Brodersen Controls, Denmark - Germany - UK

Process Components

Brodersen Controls A/S
Manufacture:

**Series 1600
Monitoring Relays**



**Series 1800
Text Displays
Operator Panels**



**Series 1400
Timers**



**Series 1700
Process Signal Converters/Isolators**



Series 1410 Timers

The classic Timer

The wide range of timers provide:



Multi Function: Up to 5 functions in the same unit

Time Ranges: From 0.1 sec to 100 hours

Supply Voltage: From 12 to 240 VAC/DC

Easy Mounting on DIN rail or in 11 pin base

Solid State or Relay Outputs

Series 1610 MX Control Relays

The Slim Line Control Relays

The MX controls/monitors:

Current
Voltage
Level
3-Phase Voltage
Temperature

22.5 mm wide



Heavy duty dual chamber terminals

High degree of isolation 3.75 kV!

Series 1650 MX Power Supplies

The efficient Power Supply

MXS-40 features:



12 or 24 VDC Output

Multi Supply Voltage
110 V to 240 AC/DC in the same unit

3.75 kV Isolation

22.5 mm wide

Series 1710 PX Signal Converters

***PX Process signal converters and isolators
-the flexible, compatible and inexpensive solution***

Conversion of analogue signals:

Standard Process Signals

0-10V/2-10V/0-20mA/4-20mA

Temperature

Current

Frequency

Resistance



Multi input range

Configurable output

Narrow design 22.5 mm

High degree of isolation

3.75 kV

Series 1430 Monitoring Relays

Series 1450 Power Supplies

Series 1430 provide:

Monitoring Relays with 3½ digit display
for monitoring and control of:

Current, Voltage, Temperature
Standard Process Signals
which can be scaled by the User

Series 1450 Power Supplies:

Flexible supply voltage 110-240 VAC/DC
12 W Output.

12 V DC or 24 VDC.



*Din Rail or
11 pin Plug-in mounting.*

*High degree of Isolation
Up to 3.75 kV*

Brodersen Controls, Denmark - Germany - UK

Series 1800 Operator Panels



A range of sturdy general purpose displays for rough environments.

The bright VF Displays secures easy information for the operator in bright sun light as well as in dark rooms.

4 or 24 keys on the front secures easy interface to the operator.

Interface to PLCs either via dedicated drivers or parallel interface

Brodersen Controls, Denmark - Germany - UK