

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

**Telephone
Radio
GSM**



BRODERSEN

simplifying process

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



Business areas:



Water

Gas

Electricity

Telecommunication

Traffic

Environment

Asset Management

Building Management

Argriculture



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 manufactures of Process IT components.



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.



Our Values and Culture:

Flexibility
Experience
Integrity
Partnerships
Expertise
Focus
Innovation



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

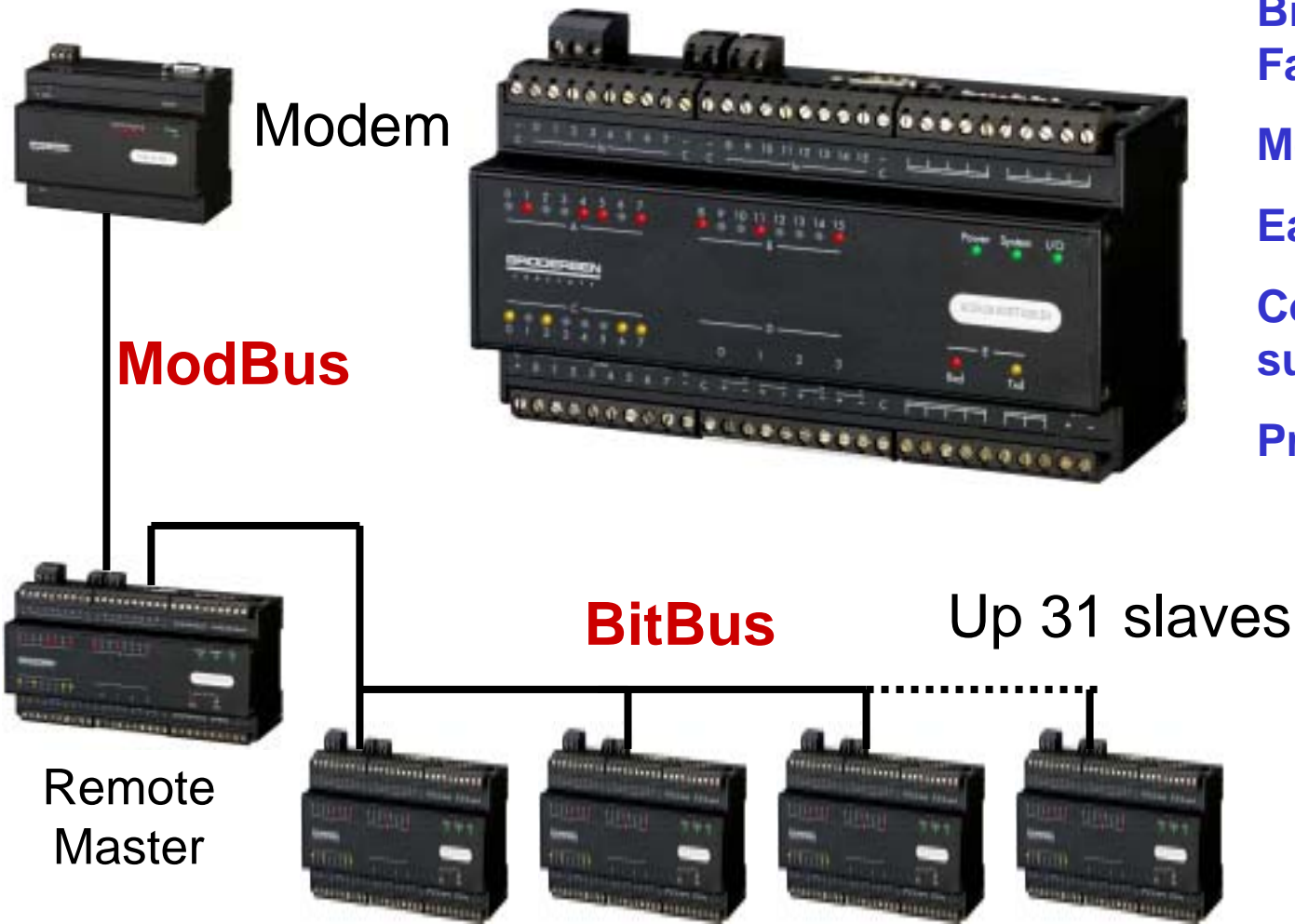
UCR-??
Customer
designs

UCR-xx Modbus
Master

Remote Bitbus
Master



Series 4020 Remote Master



BitBus Master Facility

Modbus Slave port

Easy communication

Controls up to 31 substations

Programmable



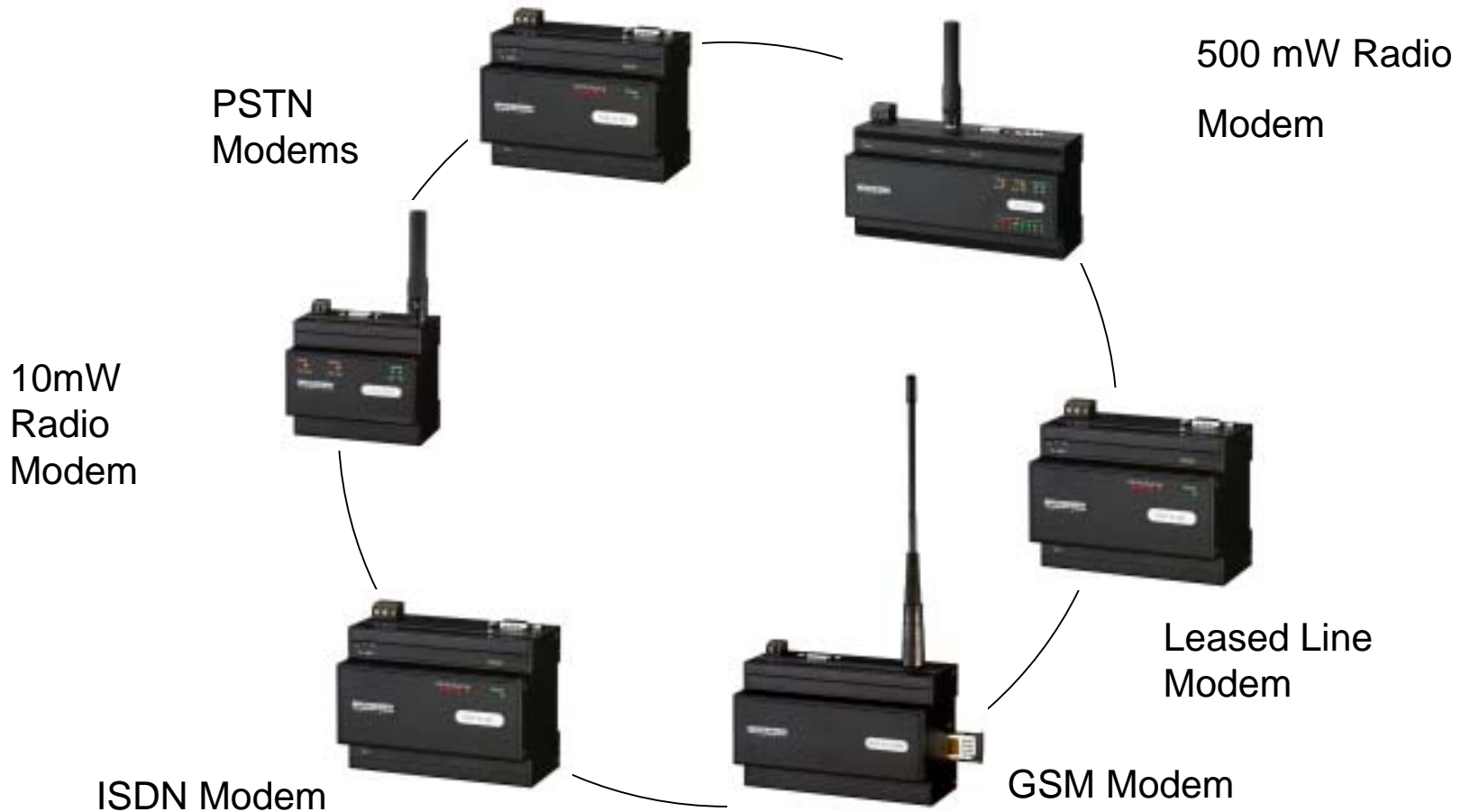
RTU Custom Design



Brodersen Controls offer flexibility.



Series 3000 Communication Modules



Series 3010 Industrial Telephone Modems

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



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



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



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



Typical Telemetry Solution

UCR- Module



SCADA Software



Communication Module



IOTOOL32 Pro



Configuration



IOTOOL32 Pro



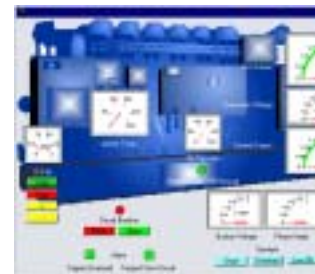
Upload Data

Database

Configuration
Programming



Interface to
most popular
SCADA
systems like:



ZenOn

InTouch

InControl

Fix

IgSS

Labview

Citect

Factory Link

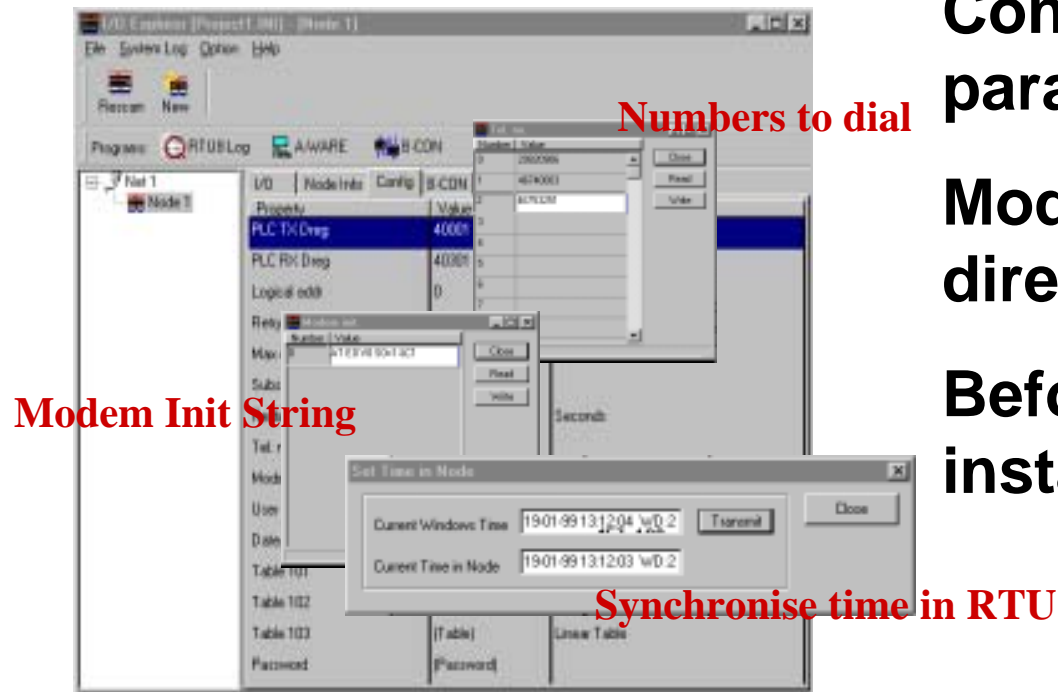
Microsoft Excel

**Microsoft
Access**

and many more

Brodersen Controls, Denmark - Germany - UK

RTU Configuration



Configuration of RTU parameters via:

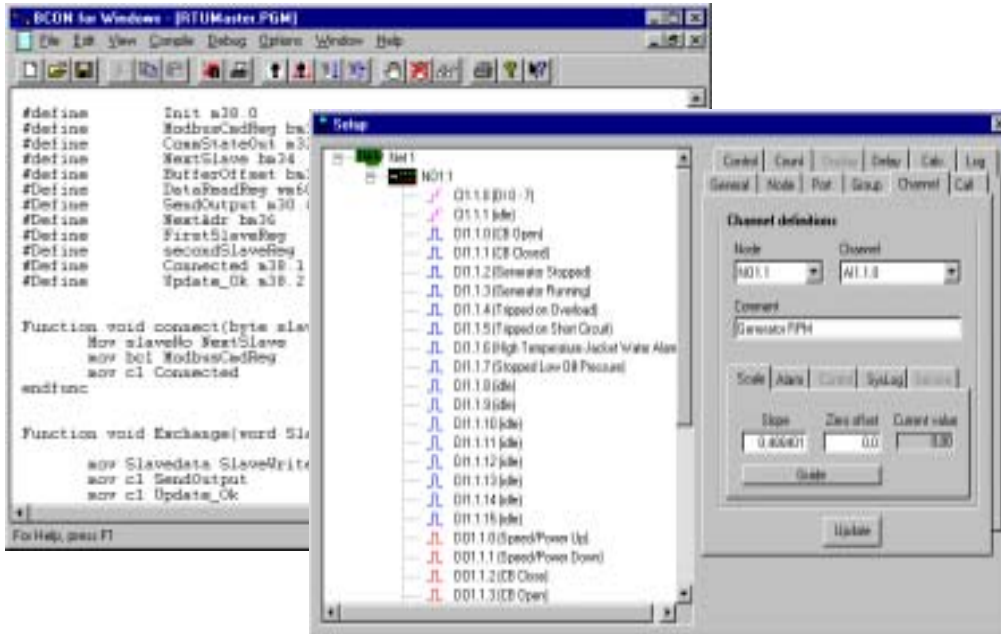
Modem/Radio/GSM or direct Cable connection.

Before or after installation



RTU Programming

B-CONW Programming Tool IEC-1131-3



Programming of RTU
Applications via:

Modem/Radio/GSM or
direct Cable connection.

Before or after
installation



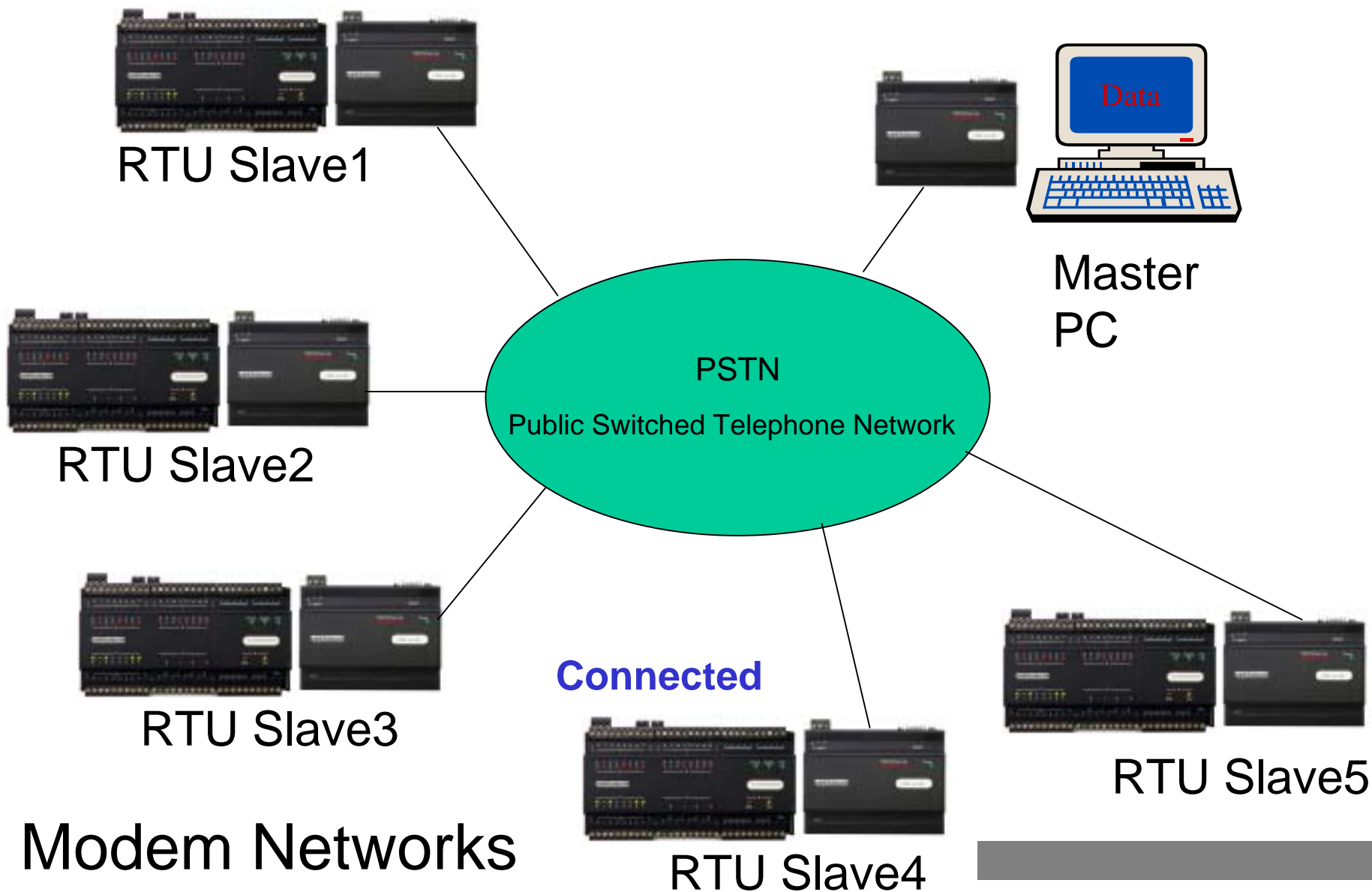
A-WARE configuration Tool

Applications

Telemetry Systems within

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





Point



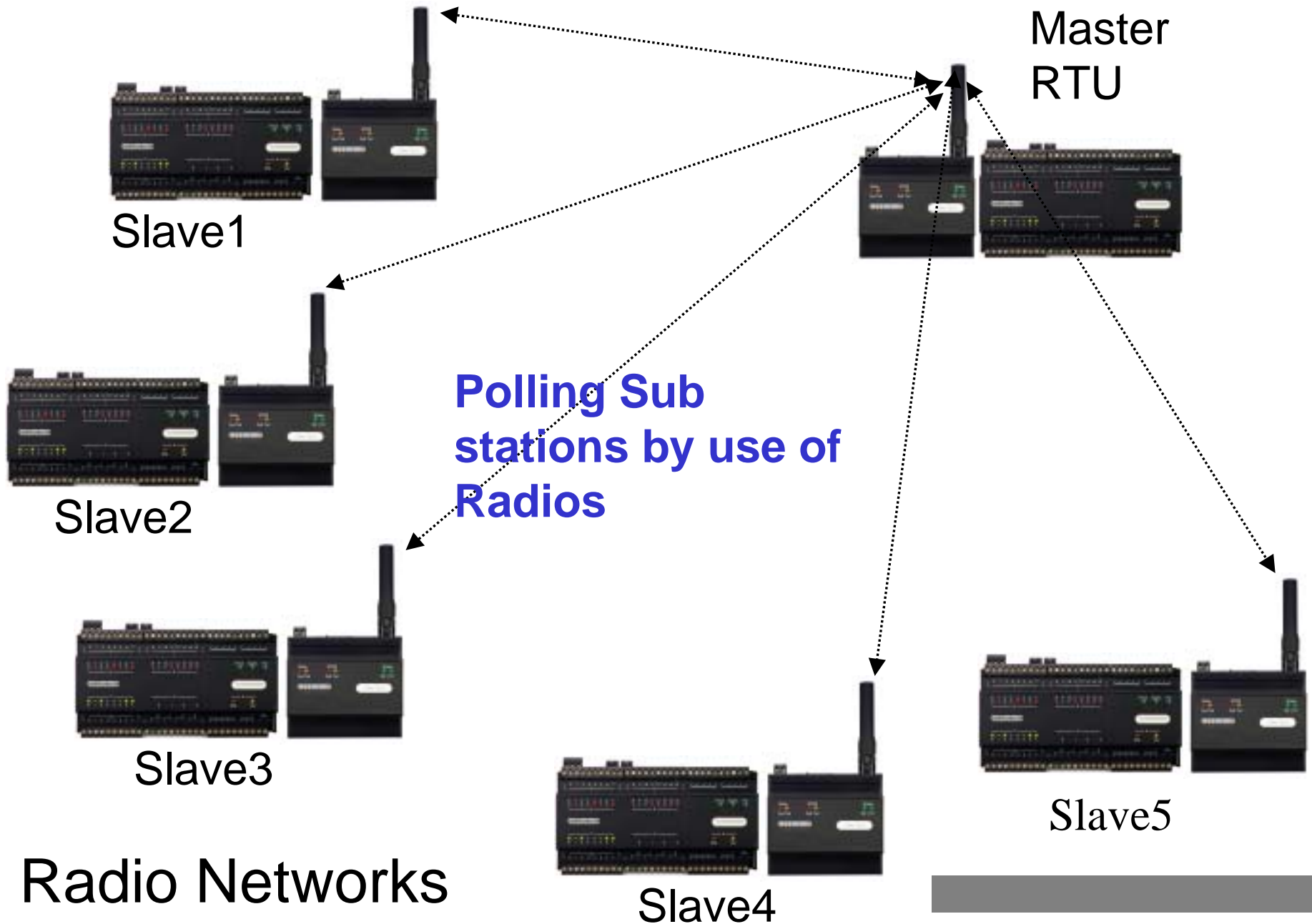
To

10mW
LicenceFree

Point

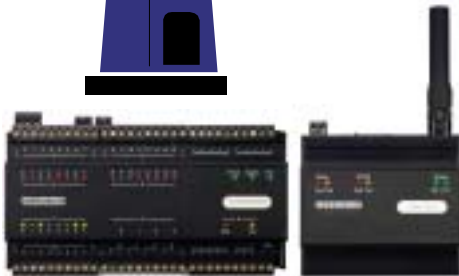
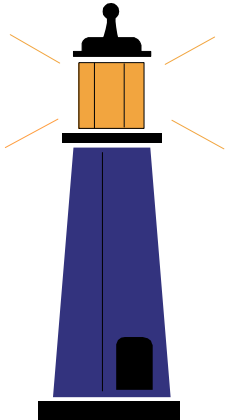


Wireless Data Transfer
using Radio Modems

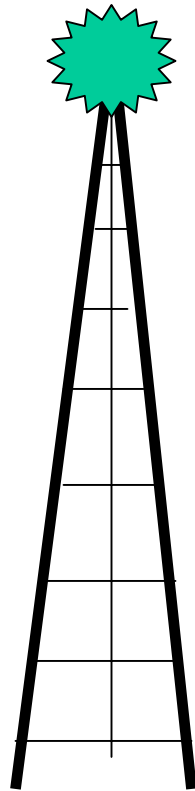


Bulb Broken

**Sending
Message**



Light House



Net Operator

GSM Installation



Master PC



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

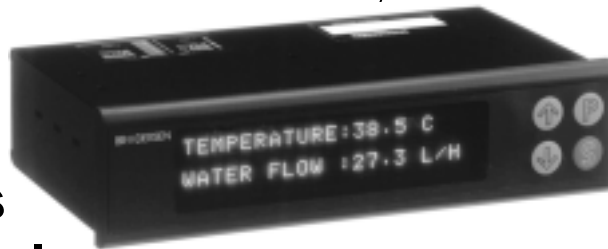
**Brodersen Controls A/S
Manufacture:**

**Series 1600
Monitoring Relays**



**Series 1400
Timers**

**Series 1800
Text Displays
Operator Panels**



**Series 1700
Process Signal Converters/Isolators**



Brodersen Controls, Denmark - Germany - UK

Series 1410 Timers

The classic Timer



The wide range of timers provide:

Multi Function: Upto 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**



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

Series 1450 Power Supplies:

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

12 V DC or 24 VDC.

***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