

DAMEN REMOTE CONTROL (TELEMETRY)

GENERAL

Some dredging projects require the transport of dredged material over a considerable distance. In those cases booster stations are placed between the dredger and the reclamation area.

Damen Dredging Equipment can supply a system for this application that controls the booster stations directly from the dredger by means of telemetry. Signals, control commands and status are transmitted by radio or fibre optics from the dredger to booster stations over a distance of max. 12 km, which enables the dredge-master to monitor and control the booster stations from his seat.

The choice between telemetry by radio or fibre optics is determined by parameters such as flexibility, transfer time, error sensitivity, etc.

Radio communication is more flexible than communication by fibre optics, more sensitive for errors by interference and the data speed is slower.

For radio communication, there are three possibilities:

- For the **short** range (< 400 m): 433 MHz Radio Modem, output max. 10 mW. No license is required for this radio transmitter.
- For the **intermediate** range (< 4 km): 869 MHz Radio Modem, output max. 500 mW. No license is required for this radio transmitter.
- For the **long** range (max. 12 km): 450 MHz Radio Modem, output max. 2 W. For this radio transmitter **license is required**.

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The error rate is minimised by means of advance checking and correction of the data packages.

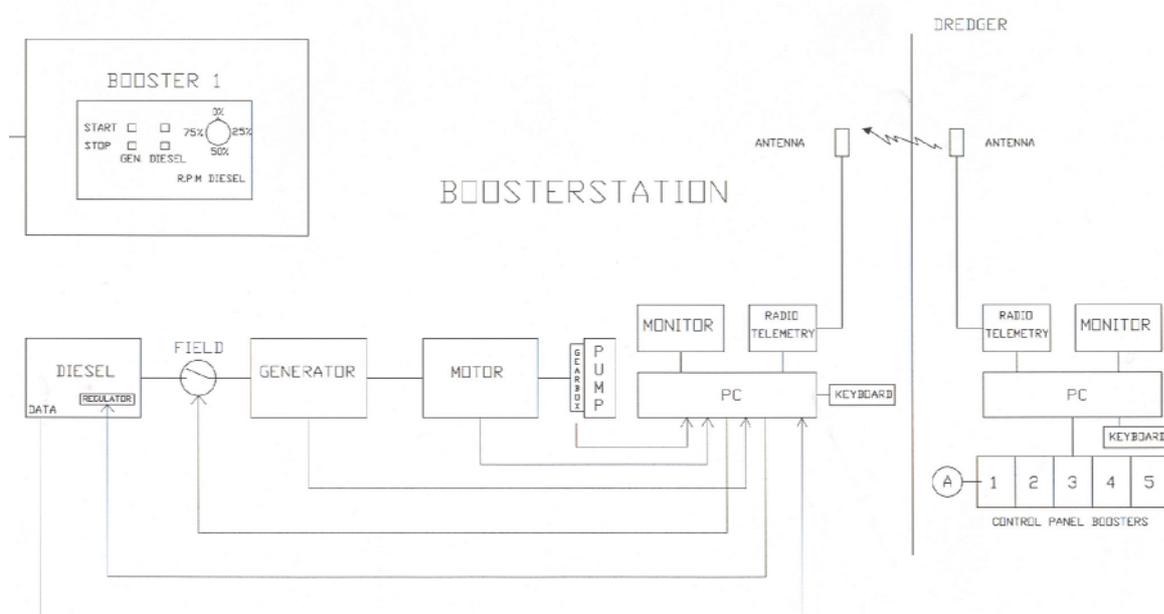
There are many possibilities for remote controlled dredging. Each customer has its own needs and lay-out requirements, to which we respond flexible.

In the standard configuration the booster station can be operated from the dredger by the following signals:

- Diesel engine (electric motor) start/stop
- Speed control
- Coupling in/out

As feed-back, the following data are available:

- Speed diesel engine (electric motor)
- Exhaust gas temperature
- Inlet pressure pump
- Delivery pressure pump
- Selected booster station
- Alarm list



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DAMEN DREDGING EQUIPMENT

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