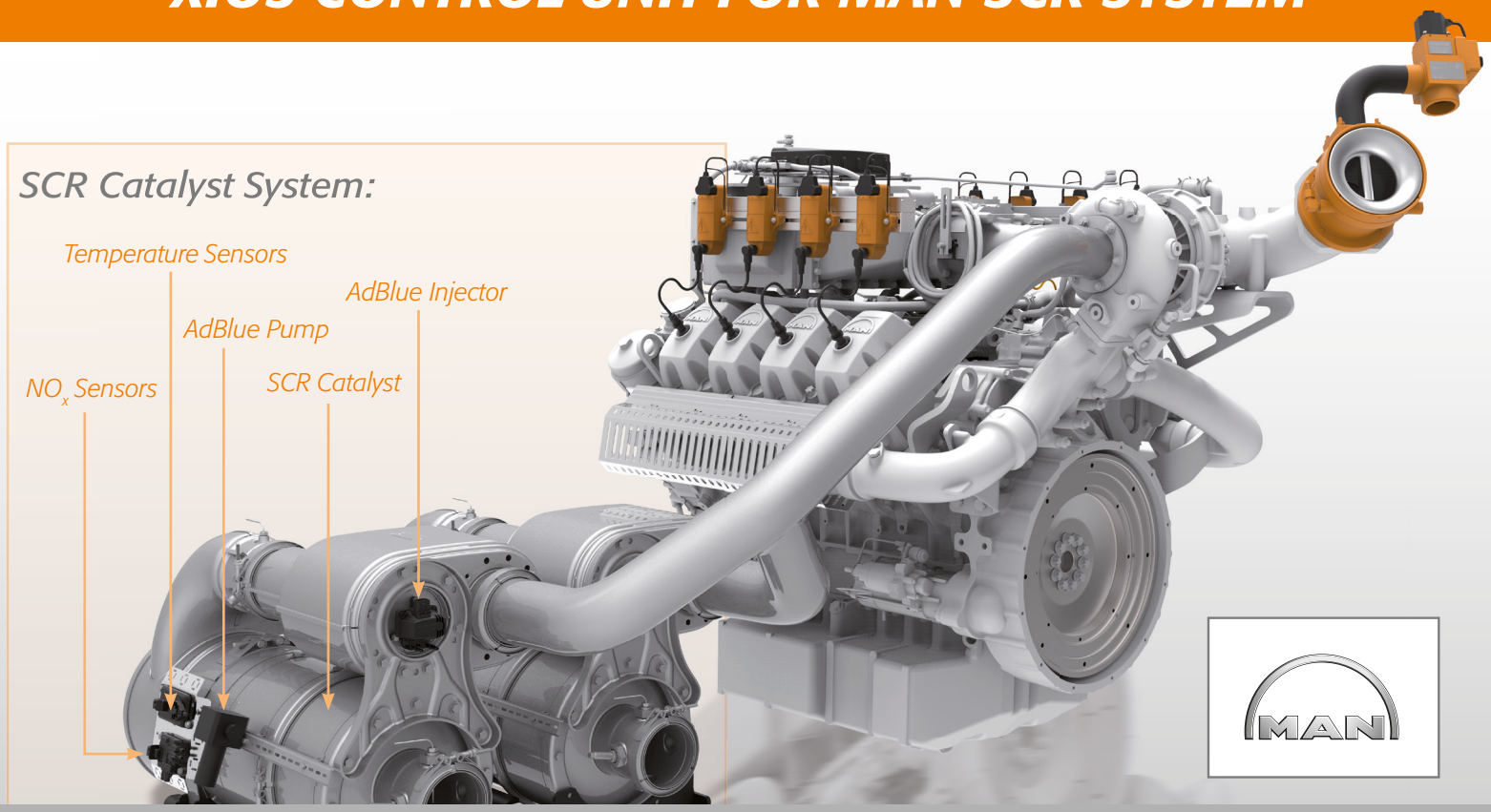
XIOS CONTROL UNIT FOR MAN SCR SYSTEM



XIOS - Multifunctions for all Systems

The HEINZMANN SCR Management System is based on the XIOS UC 1 platform to control up to 2 MAN SCR systems on a stationary lean-burn gas engine. Temperature and NO_x sensor signals are received via SAE J1939 protocol, further sensor signals (MAP, MAT, oil pressure,…) can be received either via CAN bus or analogue signals.

The AdBlue pumps are operated pressure controlled to achieve the best possible pressure and flow conditions for the directly controlled AdBlue injectors. The system provides an extensive safety system which avoids catalyst damages due to inadequate temperatures or overdosing. It also includes a tank management system which automatically refills the daily tank when the AdBlue level is low or the liquid exceeds a critical temperature limit.

MAN E 3268 LE 212	
Engine type	Four-stroke gas engine
Engine design	V-engine
Rated speed (1/min)	1500
Rated power (kW)	370
Air-fuel ratio	1.69
Number of cylinders	8
Bore (mm)	132
Stroke (mm)	157
Displacement (dm^3)	17.2

Gas Engine Control Systems

Following HEINZMANN systems are installed:

- ✔ ***Ignition Control System PHLOX II***
- ✔ ***AFR Control System KRONOS 20***
- ✔ ***Speed Control System PANDAROS***
- ✔ ***Knock Control System ARIADNE***

1 XIOS Unit controls → 2 MAN SCR Catalyst Systems

- ▶ 2x Pump control
- ▶ 2x Injector control
- ▶ 2x CAN bus, SAE J1939 protocol for NO_x sensors pre and post catalyst, temperature sensors pre and post catalyst
- ▶ Data logging
- ▶ Various analogue & digital I/Os
- ▶ Tank management system
- ▶ Extensive safety and monitoring system

- ▶ 2x AdBlue pump
- ▶ 2x AdBlue injector
- ▶ 4x NO_x sensor
- ▶ 4x Temperature sensor
- ▶ 2x SCR Catalyst systems including AdBlue mixing unit and ammonia slip catalyst

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