the special software unnecessary for cloud management You can use a usually personal computer, tablet, smart-phone, mobile-phone











trend-graph

measurement data

product of Suishin network











manhole pump control panel

exchange unit of manhole pump control panel

the monitoring reporting system

the plant control panel monitoring system









the drinking water facilities management system

the gate management control system

the snow melting facilities

water level, flow

Introduction of all Japan prefectures

Hokkaido · Aomori · Akita · Iwate · Miyagi · Fukushima · Niigata · Nagano · Gunma · Ibaraki · Saitama · Tochigi · Chiba Tokyo · kanagawa · Yamanashi · Shizuoka · Toyama · Ishikawa · Fukui · Gifu · Aichi · Mie · Shiga · Kyoto · Osaka · Nara Wakayama • Hyogo • Okayama • Hiroshima • Tottori • Shimane • Yamaguchi • Ehime • Kouchi • Fukuoka • Saga • Nagasaki Kumamoto • Ooita • Miyazaki • Kagoshima October, 2011

Human Nature Science Institute Foundation series of "human and water" (novel,comics,juvenile literature,reading tapes



Yahee Sutoh



Tahee Kiyohara



Shichibee Ookaji





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The optimization of water-related facilities



over the 5500 facilities of 240 local government

water management revolution by the cloud computing

safety network of strength against disaster



(1651~1752)

respond to any requests

unification for wide area water-related facilities automatic version-up of reporting system reduction of initial-cost, running-cost construction of strength against disaster and high reliability network

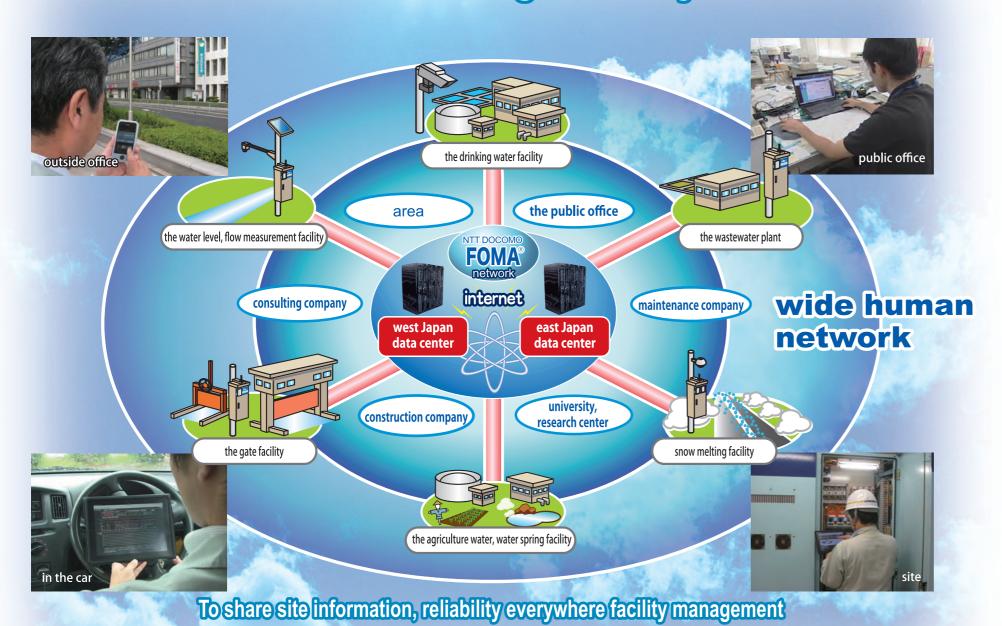


KOMATSU ELECTRIC INDUSTRY COLLTD. http://www.komatsuelec.co.jp

Aim for sustainable water management Creation reliability management network of integral of knowledge and technology based on strength cloud system against disaster



realization of wide-area management by Suishin network



data center of two position

We can prevent management system and important facilities data from huge nature disaster through two position data center

We could supply service by two position data center in east Japan huge earthquake of this March.



At Niigata earthquake of October, 2004, twenty pump station continued to send data until battery down. After electronic restoration, monitoring system started same time. Under the situation of impossible moving, we could know a site situation through remote control system.

earthquake resistant/fire/ power down/security measure

Data center has a high quality security and disaster prevention







back-up system for power down







IC card reader of no contact

the monitoring camera



T-Cho, Hyogo Prefecture



FOMA is a registered trademark of NTT DOCOMO

O City, Tochigi Prefecture

products list

MA-S















specification of controller

		MA series		XP series					PA series		
		MA-S	MA-M	XP-01	XP-02	XP-03	XP-04	XP-05	PA-S	PA-M	PA-L
input	digital input	12 points	15 points	12 points	28 points	52 points	140 points	264 points	576 points	1152 points	2304 points
	analog input	2 points	2 points (insulation)	2 points	6 points	10 points	18 points	26 points	16 points	32 points	64 points
	pals integration input	2 points	2 points	2 points	6 points	12 points	12 points	12 points	8 points	12 points	16 points
	AC current sensor	_	2 points	_	_	_	_	_	_	_	_
output	remote control output	3 points (open corrector)	4 points (relay)	3 points (open corrector)	19 points (open corrector)	35 points (open corrector)	43 points (open corrector)	83 points (open corrector)	256 points	512 points	1024 points
power down compensation		after power down, reporting during 30min. : battery life 5 years **1						after power down, reporting during 3 min. : battery life 4 years **1			
long time record		_	_	_	0	0	_	_	_	_	_
communication		built- FOMA modules	built- FOMA adapter	built- FOMA modules					another FOMA adapter		
external dimensions		W255×H195×D60	W255×H354×D72	W255×H195×D61	5×H195×D61 W255×H195×D80 W255×H195			195×D61	W374×H325×D134		
power		AC/DC12V	AC100V/AC200V select at order	AC/DC12V					AC100V		
accessories		_	AC source sensor				sequencer, terminal block, uninterruptible power supply		sequencer, terminal block, uninterruptible power supply, switching power supply		
use conditions	permission ambient temperature	$0 \sim +50\%$ (at running)									
	permission ambient humidity	80%Rh (at running)									

Human Nature Science Institute Foundation series of "human and water" (novel,comics,juvenile literature,reading tapes)



Yahee Sutoh (1651~1752)



Tahee Kiyohara



Shichibee Ookaji (1621~1689)



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application to any water-related facilities





realization of unification management and, wide area management





SA201XP 表示信息 医病性

many lineup for purpose and plant

Cheap version-up for the monitoring and reporting system





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hero of river improvement

Yahee Sutoh

unification management of water-related facilities, start Cloud management at same time introduction

high quality function by a simple introduction

cloud management many facilities



drinking water facilities

wastewater treatment plant



manhole pump

snow melting control system



gate control system



dust treatment plant

complete built-in

simple built-in to existing control panel



existing monitoring system

existing system to XP type complete by working 2 hours

many lineup for purpose and plants

Transfer without big refurbishment,



MA series



XP series Wide type line-up from small monitoring points to many monitoring points



PA series

Use Personal computer in case of high quality management

many function, equipment

1) high quality thunder protection 2 simple maintenance





Simple change

Intuitive action for high quality management



facility management by PC/mobile

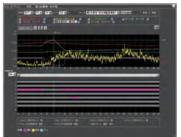
see facility information at site high efficiency of maintenance works



management screen







trend graph













A City, Kouchi Prefecature

thunder units

5years compensation

for thunder







T City, Saitama Prefecture