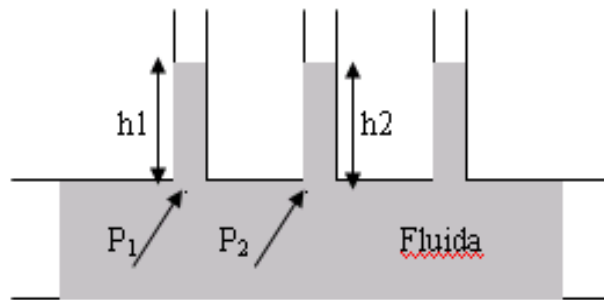
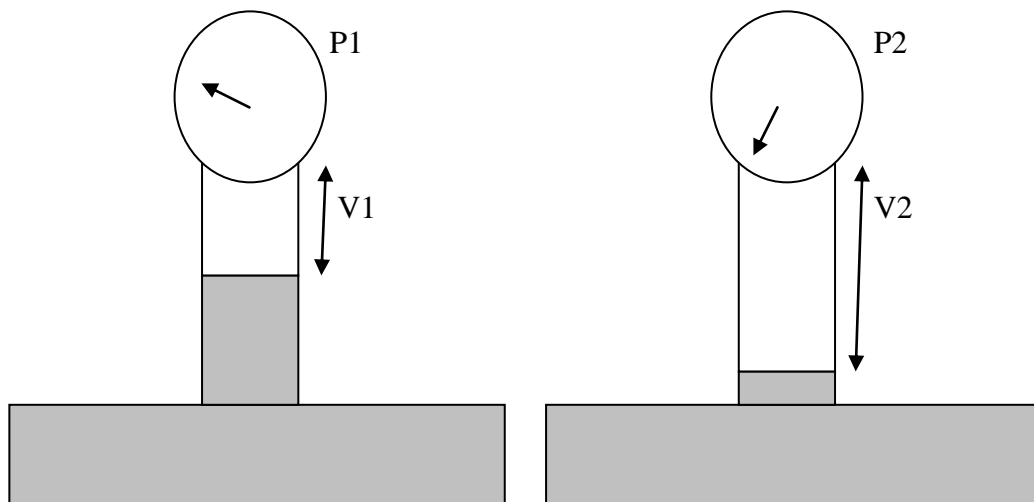


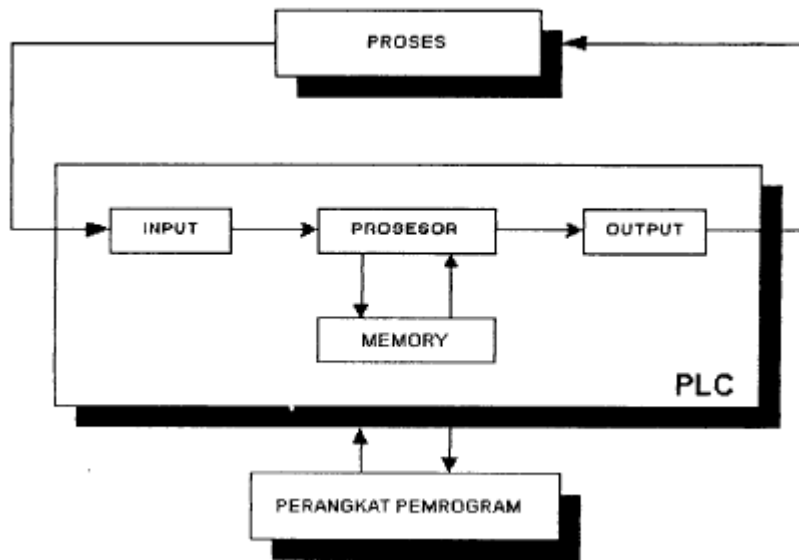
Gambar 2.1 Gambar Aplikasi Hukum Pascal



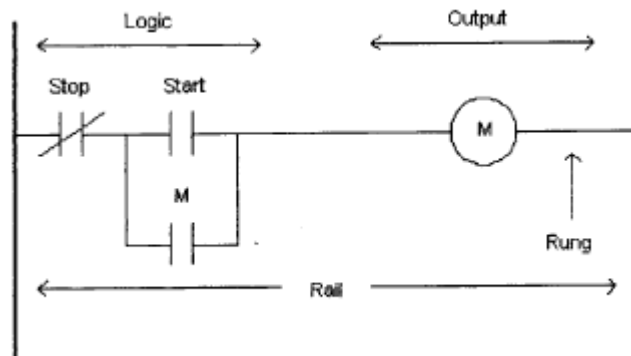
Gambar 2.2 Bejana Berhubungan



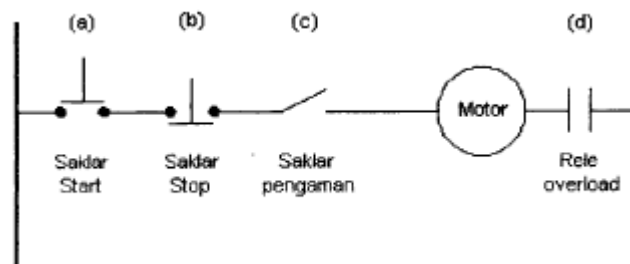
Gambar 2.3 Gambar Aplikasi Hukum Boyle



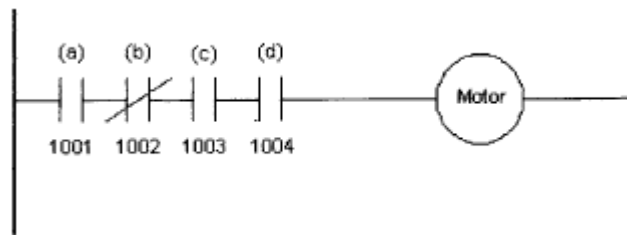
Gambar 2.4. Struktur Dasar PLC



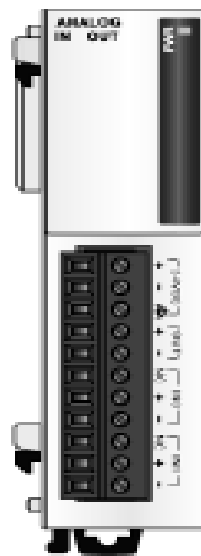
Gambar 2.5 Diagram Tangga



Gambar 2.6a. Rangkaian relai suatu instalasi motor.



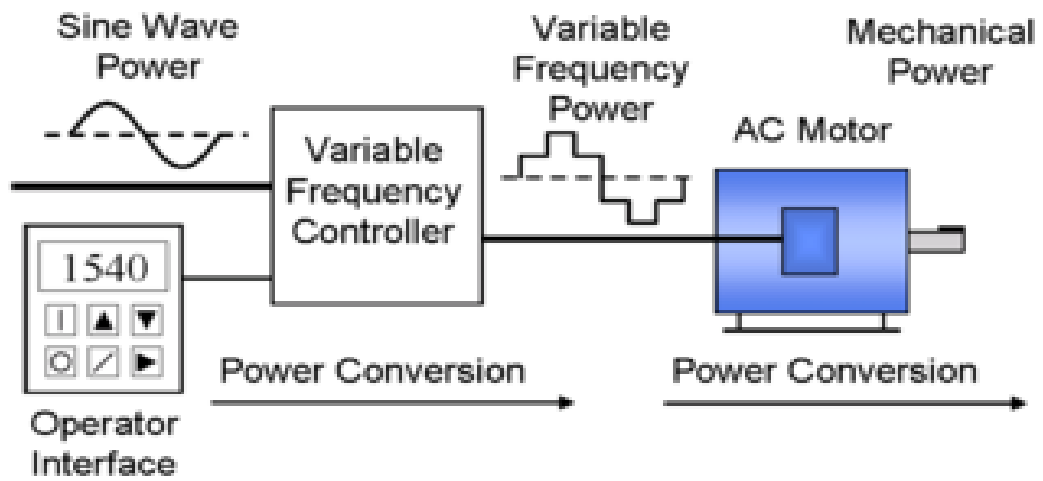
Gambar 2.6b. Diagram Tangga Ekivalen



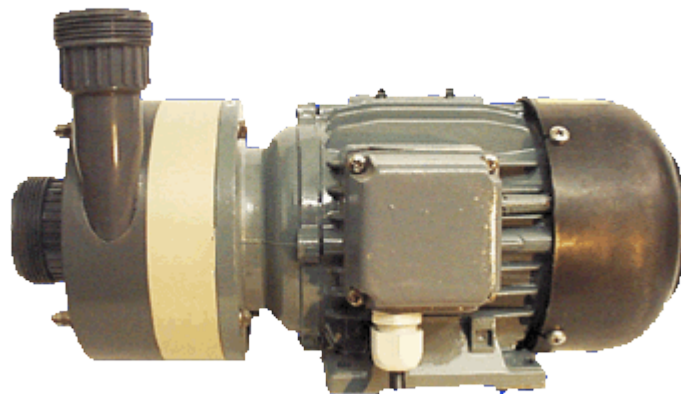
Gambar 2.7 Gambar Fisik Modul Ekspansi Analog



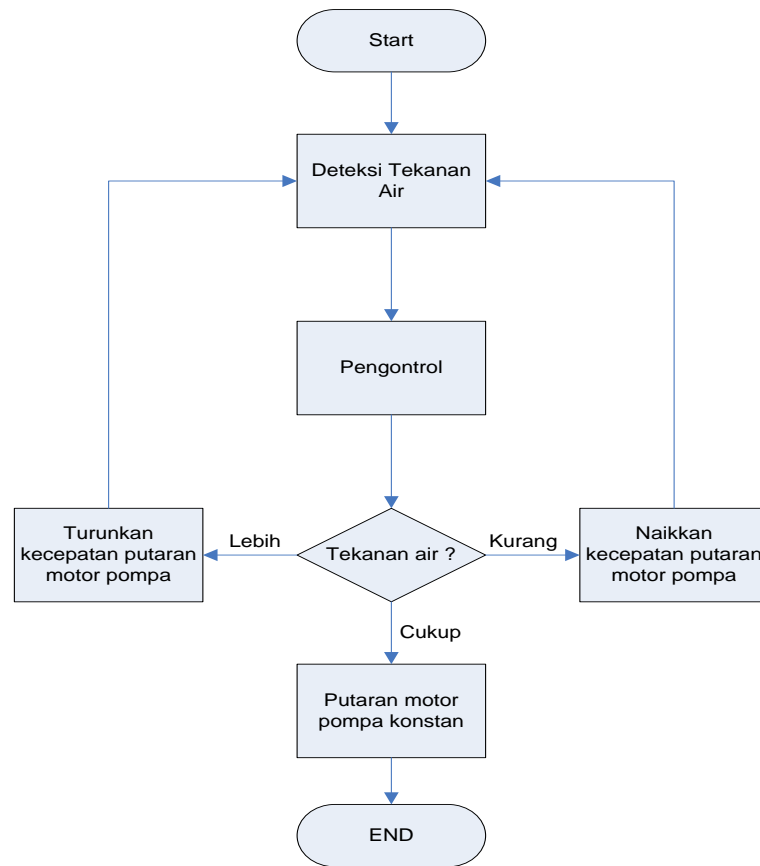
Gambar 2.8 Gambar Fisik Inverter



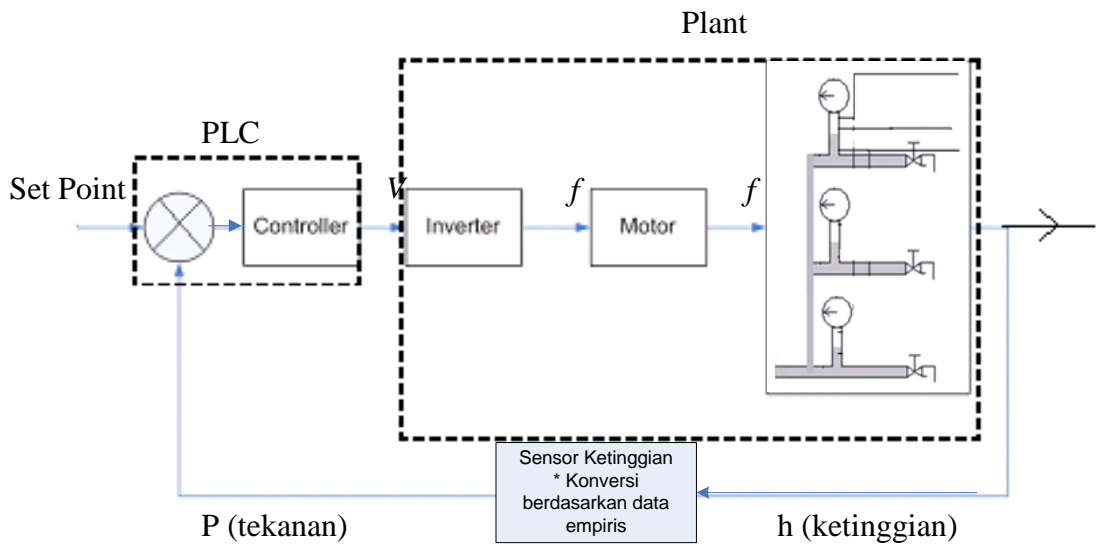
Gambar 2.9 Diagram Blok Cara Kerja Inverter



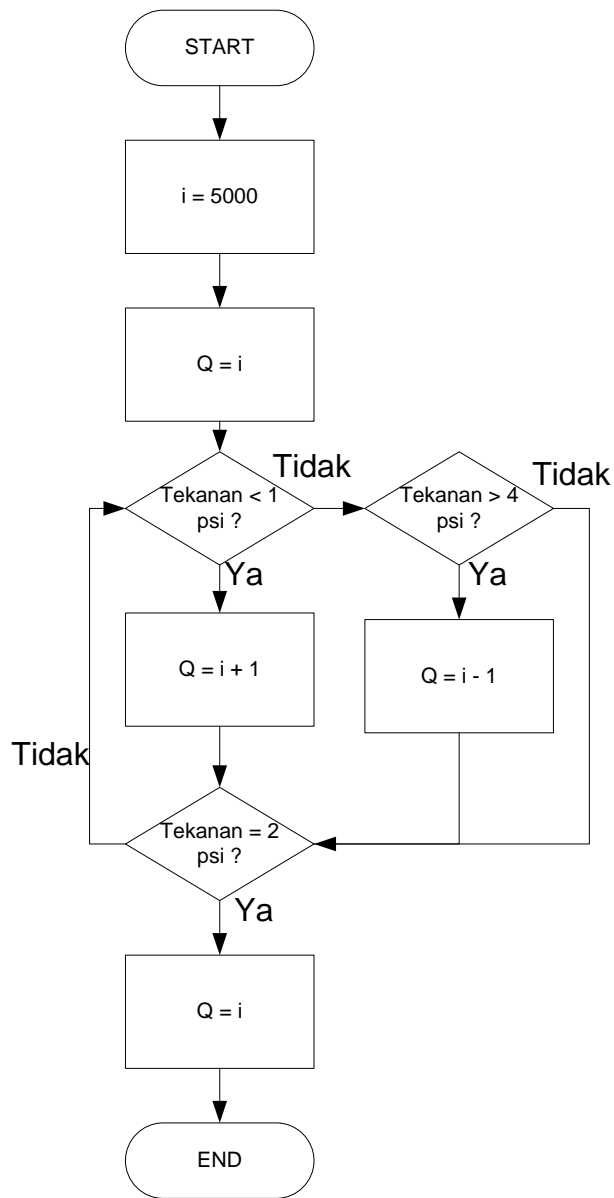
Gambar 2.10. Gambar fisik pompa dengan motor 1 fasa



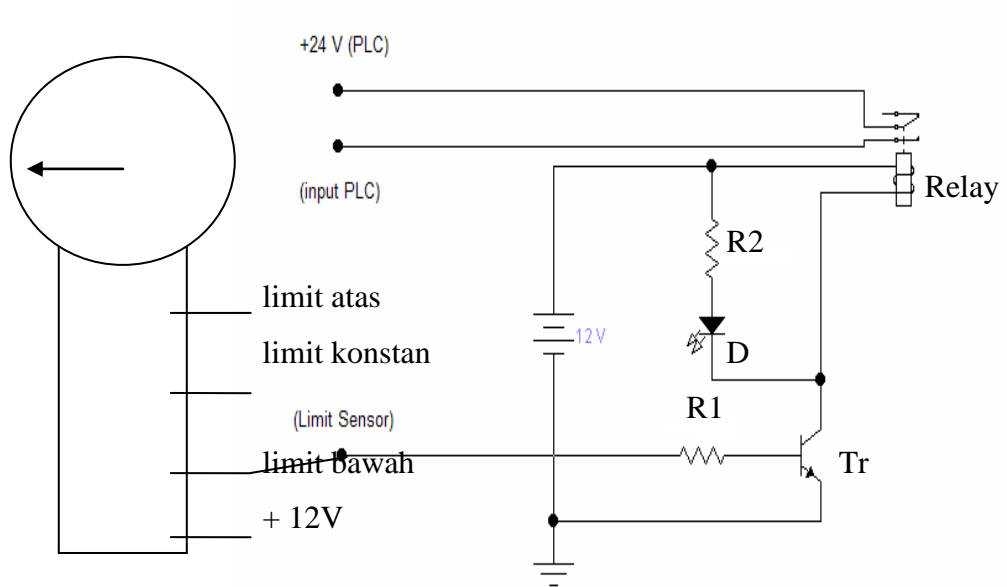
Gambar 3.1 Diagram Alir Sistem



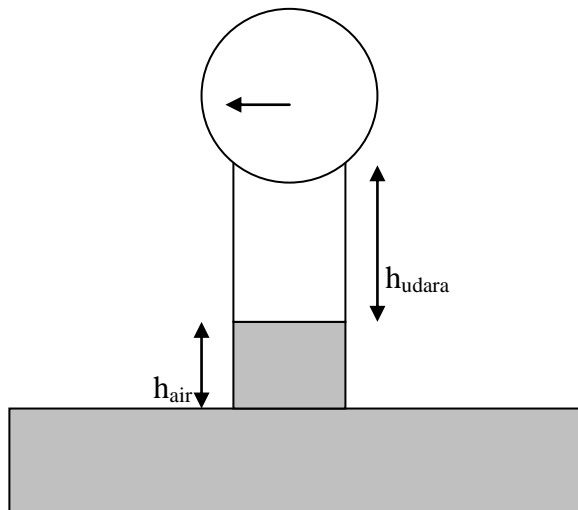
Gambar 3.2 Diagram Blok Model



Gambar 3.3 Algoritma Kerja Program



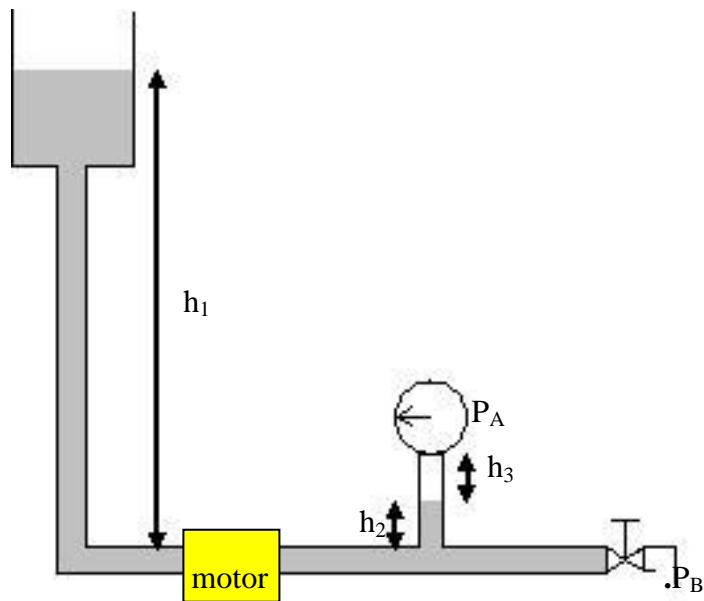
Gambar 3.4 Sensor Ketinggian Air



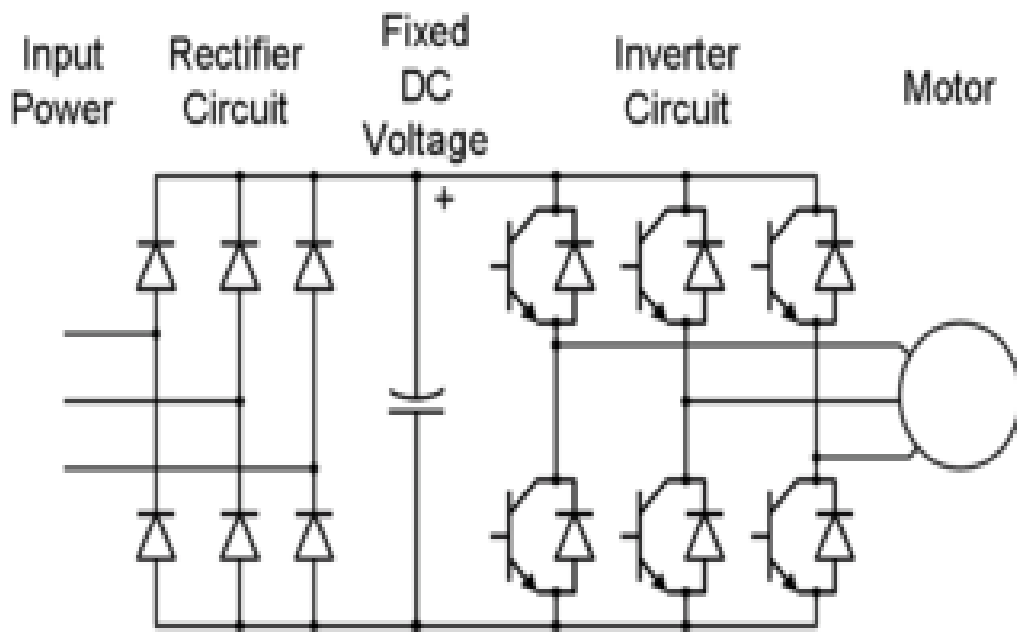
Gambar 3.5 Metoda Pipa Vertikal Tertutup



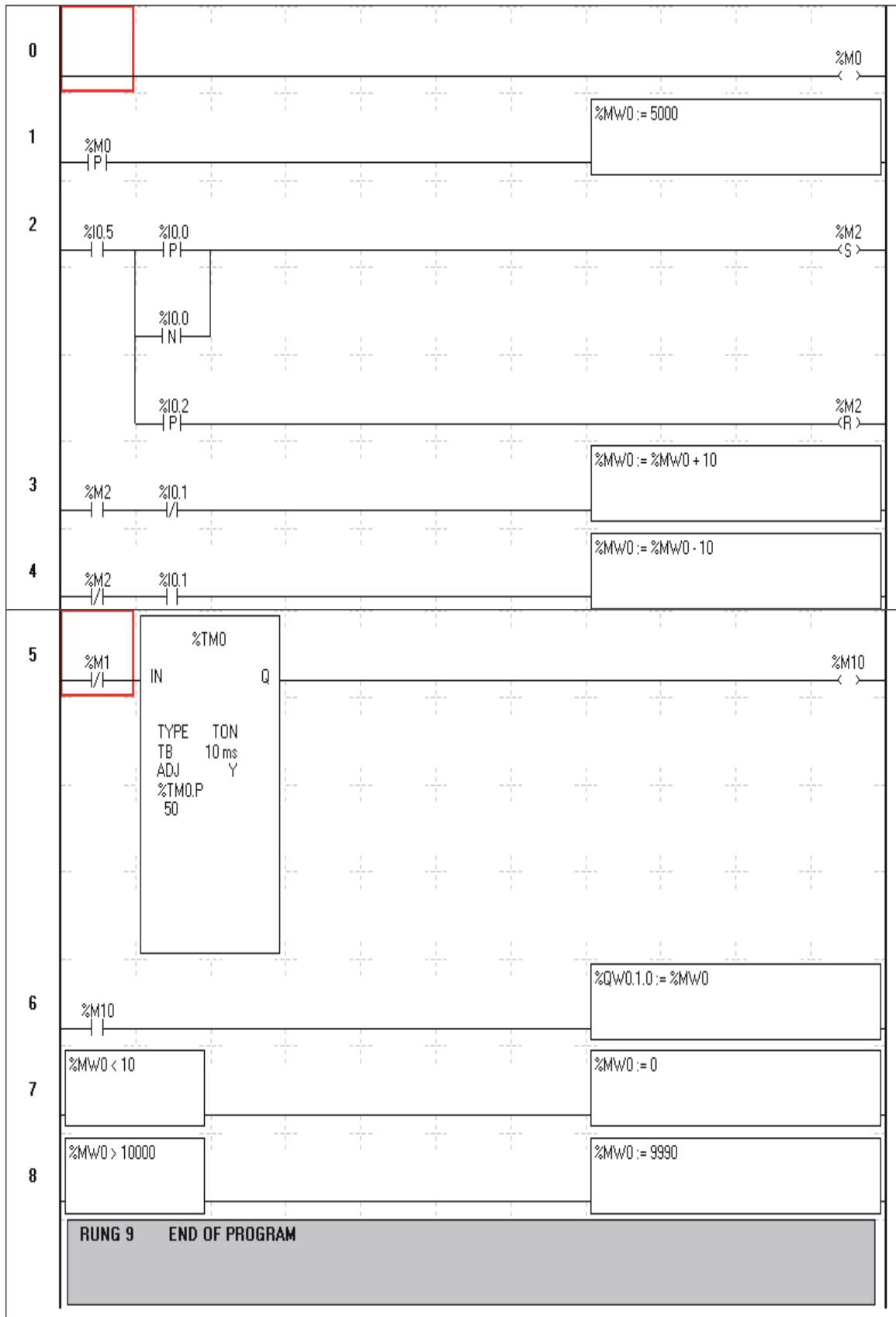
Gambar 3.6 Sensor Tekanan



Gambar 3.7 Gambar dari Model Sistem Regulasi Tekanan Air



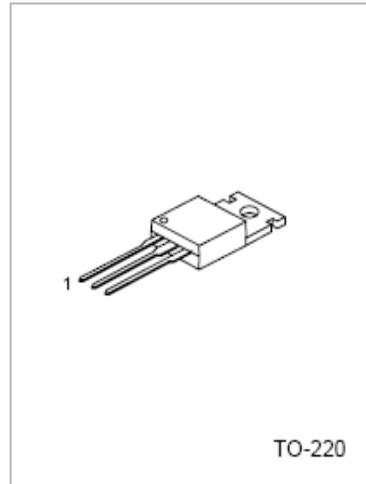
Gambar 3.8 Gambar Rangkaian Inverter



NPN EPITAXIAL PLANAR
TRANSISTOR

DESCRIPTION

The UTC D313 is designed for use in general purpose amplifier and switching applications.



TO-220

1:BASE 2:COLLECTOR 3:EMITTER

ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	VCBO	60	V
Collector-Emitter Voltage	VCEO	60	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	Ic	3	A
Storage Temperature	T _{STG}	-55 ~ +150	°C
Junction Temperature	T _J	150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BVCBO	I _C =1mA	60			V
Collector-Emitter Breakdown Voltage	BVCEO	I _C =10mA	60			V
Emitter-Base Breakdown Voltage	BVEBO	I _E =100μA	5			V
Collector Cut-Off Current	ICBO	V _{CB} =20V, I _E =0			0.1	mA
Emitter Cut-Off Current	IEBO	V _{EB} =4V, I _C =0			1.0	mA
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =2A, I _B =0.2A			1.0	V
Base-Emitter On voltage	V _{BE(ON)}	V _{CE} =2V, I _C =1A			1.5	V
DC Current Gain	h _{FE}	I _C =1A, V _{CE} =2V	40		320	
		I _C =0.1A, V _{CE} =2V	40			

CLASSIFICATION ON h_{FE}

RANK	C	D	E	F
RANGE	40-80	60-120	100-200	160-320

